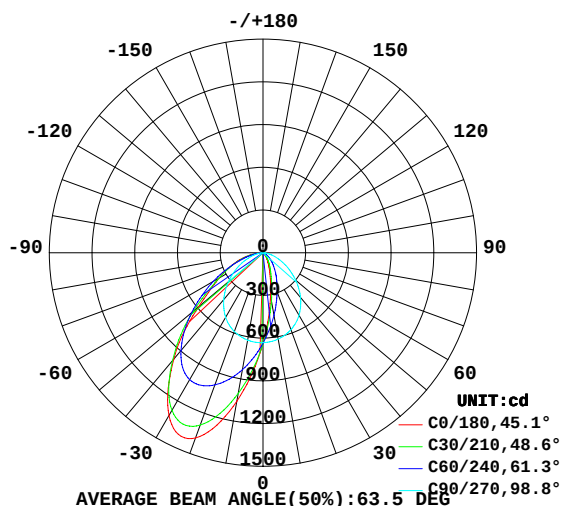


LUMINAIRE PHOTOMETRIC TEST REPORT

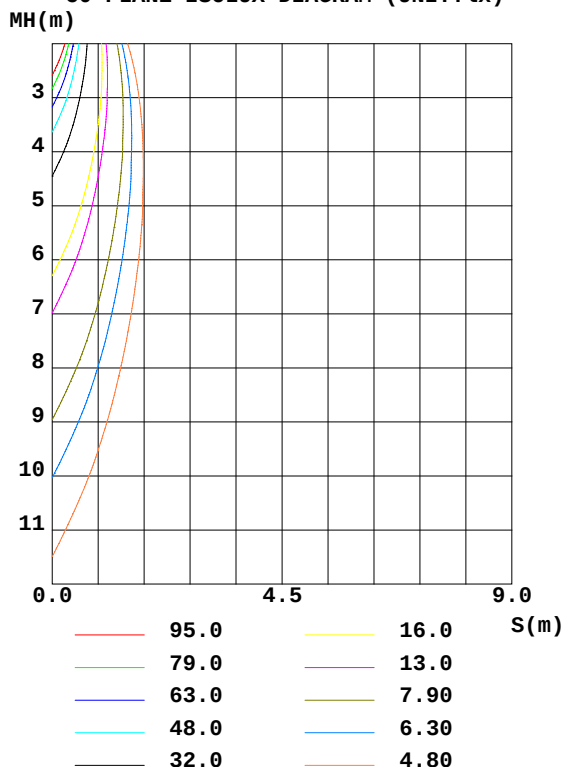
NAME:CL-Washer40 3000k-Ra90	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 67.74 lm/W			
MODEL		I _{max} (cd)	1412	S/MH(C0/180)	0.32
NOMINAL POWER(W)	24	LOR(%)	100.0	S/MH(C90/270)	1.20
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	1707.0	η UP, DN(C0-180)	0.2, 47.6
NOMINAL FLUX(lm)	1707.02	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.2, 52.1
LAMPS INSIDE	1	η up(%)	0.4	CIBSE SHR NOM	1.00
TEST VOLTAGE(V)	24	η down(%)	99.6	CIBSE SHR MAX	1.00

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: tang
Test Date: 2022-04-11

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.262
Humidity: 65.0%
Test Distance: 7.100m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	308.0	386.8	615.7	902.4	1058	926.5	623.4	380.5	0- 10	61.04	61.04	3.58,3.58
20	136.9	213.9	574.8	1142	1383	1159	588.7	214.9	10- 20	188.7	249.8	14.6,14.6
30	63.39	118.5	506.6	1212	1321	1197	524.5	121.3	20- 30	306.3	556.1	32.6,32.6
40	26.30	63.29	409.7	1026	975.3	983.7	428.9	66.21	30- 40	356.8	912.8	53.5,53.5
50	6.045	27.39	301.1	711.1	589.7	671.6	317.8	29.73	40- 50	321.3	1234	72.3,72.3
60	0.0237	5.041	192.4	419.3	356.3	387.2	205.9	6.218	50- 60	233.8	1468	86,86
70	0	0	102.3	209.2	210.4	195.2	108.7	0.0071	60- 70	146.3	1614	94.6,94.6
80	0	0	32.33	80.84	89.86	73.84	36.07	0.0024	70- 80	73.33	1688	98.9,98.9
90	0.0564	0.0589	0.0000	0	0	0	0.0001	0.0067	80- 90	13.25	1701	99.6,99.6
100	0.3582	0.3633	0.1512	0	0	0	0.1178	0.4248	90-100	0.1072	1701	99.6,99.6
110	0.8064	0.8753	0.4344	0	0	0	0.3820	0.9486	100-110	0.3136	1701	99.7,99.7
120	1.537	1.583	0.7978	0.0166	0	0	0.7405	1.661	110-120	0.5977	1702	99.7,99.7
130	2.500	2.388	1.227	0.1228	0.0284	0.1086	1.156	2.431	120-130	0.9069	1703	99.7,99.7
140	3.444	3.112	1.657	0.3351	0.1512	0.3091	1.581	3.098	130-140	1.140	1704	99.8,99.8
150	3.978	3.528	2.048	0.6324	0.3826	0.6324	1.968	3.506	140-150	1.187	1705	99.9,99.9
160	4.035	3.590	2.350	1.116	0.8455	1.130	2.274	3.559	150-160	1.024	1706	99.9,99.9
170	3.639	3.301	2.544	1.781	1.643	1.819	2.492	3.258	160-170	0.6940	1707	100,100
180	2.718	2.662	2.624	2.577	2.685	2.629	2.586	2.610	170-180	0.2464	1707	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT: lm		

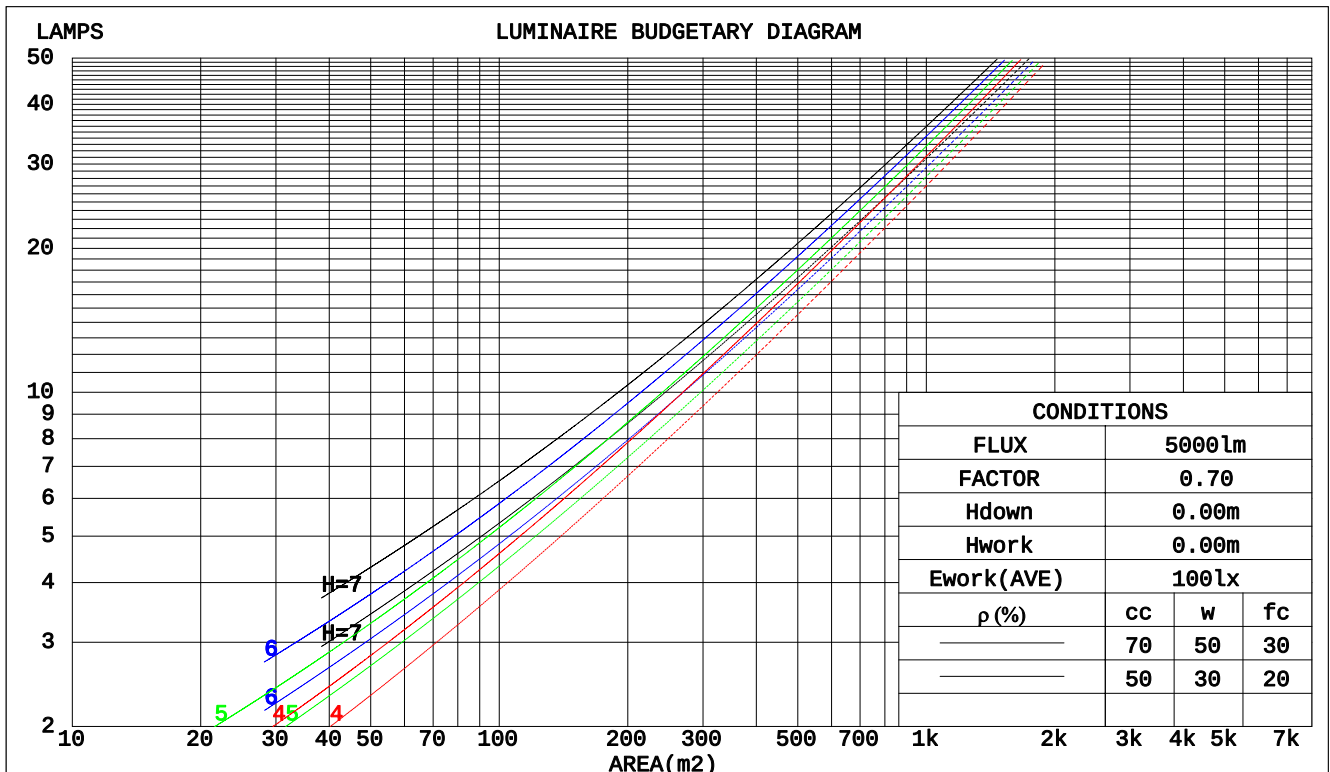
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:tang
Test Date:2022-04-11

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 γ Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.262
Humidity:65.0%
Test Distance:7.100m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME: Washer40-3000k-Ra90	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: VD	SUR.:	PROTECTION ANGLE:

ρ_{CC}	80%			70%			50%			30%			10%			0
ρ_W	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	Coefficients of Utilization(CU)															
RCR:Room Cavity Ratio																
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	.00
1.0	1.06	1.02	.99	1.04	1.00	.97	.99	.96	.94	.95	.93	.91	.92	.90	.88	.86
2.0	.94	.87	.82	.92	.86	.81	.88	.83	.79	.85	.81	.78	.82	.79	.76	.74
3.0	.83	.76	.70	.82	.75	.69	.79	.73	.68	.76	.71	.67	.73	.69	.66	.63
4.0	.74	.66	.60	.73	.65	.60	.71	.64	.59	.68	.63	.58	.66	.61	.57	.55
5.0	.67	.59	.52	.66	.58	.52	.64	.57	.51	.62	.56	.51	.60	.55	.50	.48
6.0	.61	.52	.46	.60	.52	.46	.58	.51	.45	.56	.50	.45	.55	.49	.45	.43
7.0	.55	.47	.41	.54	.46	.41	.53	.46	.41	.51	.45	.40	.50	.44	.40	.38
8.0	.50	.42	.37	.50	.42	.37	.48	.41	.36	.47	.41	.36	.46	.40	.36	.34
9.0	.46	.38	.33	.46	.38	.33	.45	.38	.33	.44	.37	.33	.43	.37	.33	.31
10.0	.43	.35	.30	.42	.35	.30	.41	.35	.30	.40	.34	.30	.39	.34	.30	.28



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: tang
Test Date: 2022-04-11

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.262
Humidity: 65.0%
Test Distance: 7.100m [K=1.0000]
Remarks:

WEC AND CCEC

NAME: Washer40-3000k-Ra90	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: VD	SUR.:	PROTECTION ANGLE:

ρ_{CC}	80%			70%			50%			30%			10%			0	
ρ_W	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
ρ_{fc}	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.271	.154	.049	.264	.151	.048	.251	.144	.046	.239	.138	.044	.227	.132	.042		
2.0	.261	.143	.044	.254	.140	.043	.243	.135	.042	.232	.130	.041	.222	.126	.040		
3.0	.245	.130	.039	.240	.128	.039	.229	.124	.038	.220	.120	.037	.211	.117	.036		
4.0	.229	.119	.035	.224	.117	.035	.215	.114	.034	.207	.111	.033	.199	.108	.033		
5.0	.214	.109	.032	.210	.108	.031	.202	.105	.031	.194	.102	.030	.187	.100	.030		
6.0	.200	.100	.029	.196	.099	.029	.189	.097	.028	.183	.095	.028	.176	.093	.028		
7.0	.188	.093	.026	.184	.092	.026	.178	.090	.026	.172	.088	.026	.166	.086	.025		
8.0	.176	.086	.024	.173	.085	.024	.168	.084	.024	.162	.082	.024	.157	.081	.023		
9.0	.166	.080	.022	.163	.080	.022	.158	.078	.022	.153	.077	.022	.149	.076	.022		
10.0	.157	.075	.021	.155	.075	.021	.150	.073	.021	.145	.072	.021	.141	.071	.020		

ρ _{CC}	80%			70%			50%			30%			10%			0
ρ _W	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ _{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.193	.193	.193	.165	.165	.165	.113	.113	.113	.065	.065	.065	.021	.021	.021	
1.0	.180	.159	.140	.154	.137	.121	.106	.094	.083	.061	.054	.049	.019	.018	.016	
2.0	.171	.135	.105	.146	.116	.090	.100	.080	.063	.058	.047	.037	.019	.015	.012	
3.0	.162	.117	.081	.139	.101	.070	.096	.070	.049	.055	.041	.029	.018	.013	.009	
4.0	.155	.103	.064	.133	.089	.056	.091	.062	.039	.053	.036	.023	.017	.012	.008	
5.0	.147	.093	.052	.127	.080	.046	.087	.056	.032	.051	.033	.019	.016	.011	.006	
6.0	.141	.084	.044	.121	.073	.038	.083	.051	.027	.048	.030	.016	.016	.010	.005	
7.0	.134	.077	.038	.115	.067	.033	.080	.047	.023	.046	.028	.014	.015	.009	.005	
8.0	.128	.072	.033	.110	.062	.029	.076	.044	.020	.044	.026	.012	.014	.008	.004	
9.0	.122	.067	.029	.105	.058	.025	.073	.041	.018	.043	.024	.011	.014	.008	.004	
10.0	.117	.062	.026	.101	.054	.023	.070	.038	.016	.041	.023	.010	.013	.007	.003	

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:tang
Test Date:2022-04-11

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.262
Humidity:65.0%
Test Distance:7.100m [K=1.0000]
Remarks:

Uncorrected UGR Table

NAME: Washer40-3000k-Ra90						TYPE:					WEIGHT:				
DIM.:						SPEC.:					SERIAL No.:				
MFR.: VD						SUR.:					PROTECTION ANGLE:				
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3					
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3					
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2					
Room dimensions						Viewed crosswise					Viewed endwise				
x = 2H y = 2H	-3.7	-2.3	-3.5	-2.1	-1.9	12.3	13.7	12.6	13.9	14.1					
3H	-4.0	-2.7	-3.7	-2.4	-2.2	13.6	14.9	13.9	15.1	15.3					
4H	-4.1	-2.8	-3.7	-2.6	-2.3	14.0	15.3	14.3	15.5	15.8					
6H	-4.2	-3.0	-3.8	-2.7	-2.5	14.3	15.5	14.6	15.7	16.0					
8H	-4.2	-3.1	-3.9	-2.8	-2.5	14.4	15.5	14.7	15.7	16.0					
12H	-4.3	-3.2	-3.9	-2.9	-2.6	14.4	15.4	14.7	15.7	16.0					
4H 2H	-2.5	-1.3	-2.2	-1.1	-0.8	12.0	13.2	12.3	13.4	13.7					
3H	-2.8	-1.7	-2.4	-1.4	-1.1	13.3	14.3	13.6	14.6	14.9					
4H	-2.9	-1.9	-2.5	-1.6	-1.2	13.7	14.7	14.1	15.0	15.4					
6H	-2.9	-2.1	-2.5	-1.7	-1.4	14.0	14.9	14.4	15.2	15.6					
8H	-3.0	-2.2	-2.6	-1.8	-1.4	14.1	14.9	14.5	15.2	15.6					
12H	-3.0	-2.3	-2.6	-1.9	-1.5	14.1	14.8	14.5	15.2	15.6					
8H 4H	-2.9	-2.1	-2.4	-1.7	-1.3	13.6	14.4	14.0	14.8	15.1					
6H	-2.9	-2.3	-2.5	-1.9	-1.4	13.9	14.5	14.3	14.9	15.4					
8H	-3.0	-2.4	-2.5	-2.0	-1.5	13.9	14.5	14.4	14.9	15.4					
12H	-3.0	-2.5	-2.5	-2.1	-1.6	14.0	14.5	14.4	14.9	15.4					
12H 4H	-2.9	-2.2	-2.5	-1.8	-1.4	13.5	14.3	14.0	14.7	15.1					
6H	-3.0	-2.4	-2.5	-2.0	-1.5	13.8	14.4	14.3	14.8	15.3					
8H	-3.0	-2.5	-2.5	-2.1	-1.6	13.9	14.4	14.4	14.8	15.3					
Variations with the observer position at spacings:															
S = 1.0H	+ 2.5 / -23.7					+ 2.2 / - 2.1									
1.5H	+ 3.1 / - 8.3					+ 3.5 / - 5.6									
2.0H	+ 4.7 / -49.1					+ 4.7 / -10.3									

CIE Pub.117 Corrected 1707 lm Total Lamp Luminous Flux.(8log(F/F0) = 1.9)

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:tang
Test Date:2022-04-11

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.262
Humidity:65.0%
Test Distance:7.100m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

NAME: Washer40-3000k-Ra90	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: VD	SUR.:	PROTECTION ANGLE:

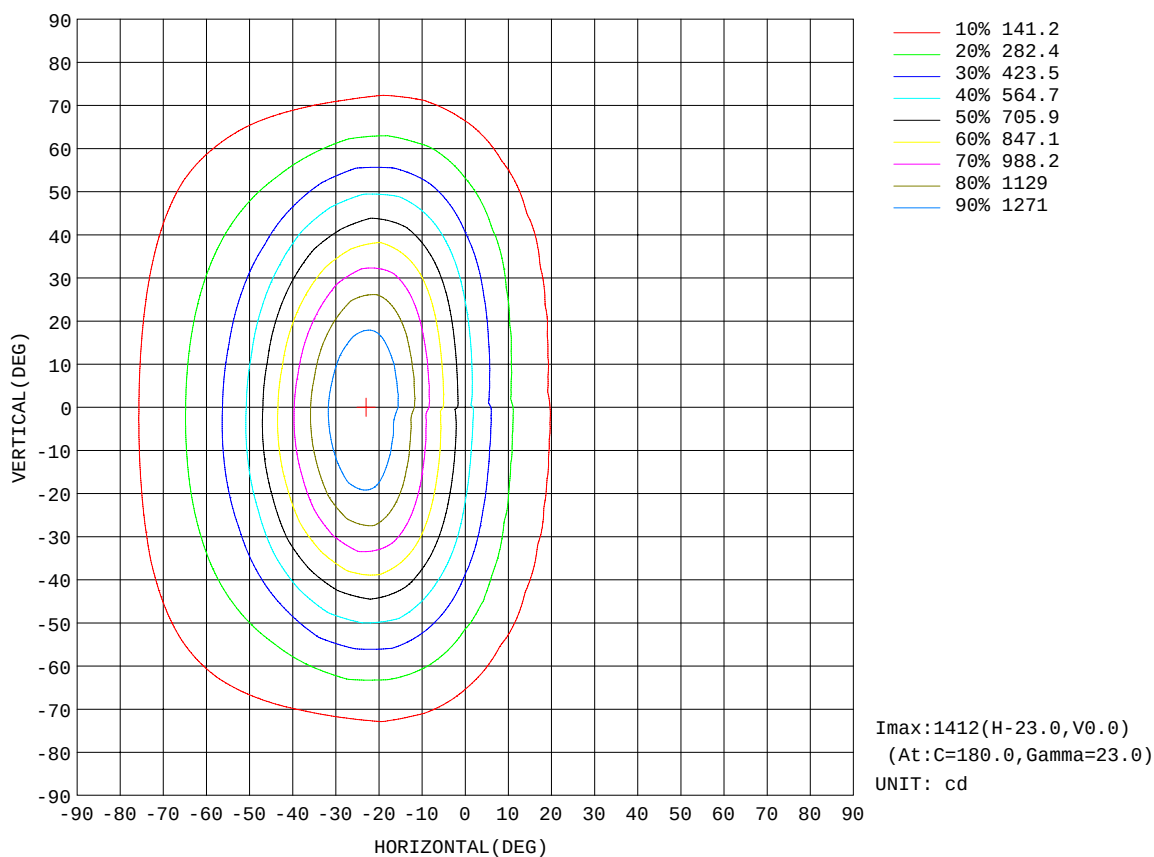
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	63	52	45	62	52	45	61	51	45	39
0.80	73	62	55	72	62	55	70	61	55	48
1.00	81	71	64	80	70	64	78	71	64	57
1.25	88	78	72	86	78	72	84	76	71	64
1.50	92	84	77	91	83	77	88	81	76	69
2.00	98	91	85	97	90	84	93	88	83	76
2.50	102	95	90	100	94	89	96	91	87	79
3.00	105	99	94	103	97	93	99	94	91	83
4.00	108	103	99	106	101	98	102	98	95	86
5.00	110	106	102	108	104	101	103	100	98	89
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004										
Suspended										
SHRNM = 1.25										

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: tang
Test Date: 2022-04-11

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 γ Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.262
Humidity: 65.0%
Test Distance: 7.100m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

NAME: Washer40-3000k-Ra90	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: VD	SUR.:	PROTECTION ANGLE:

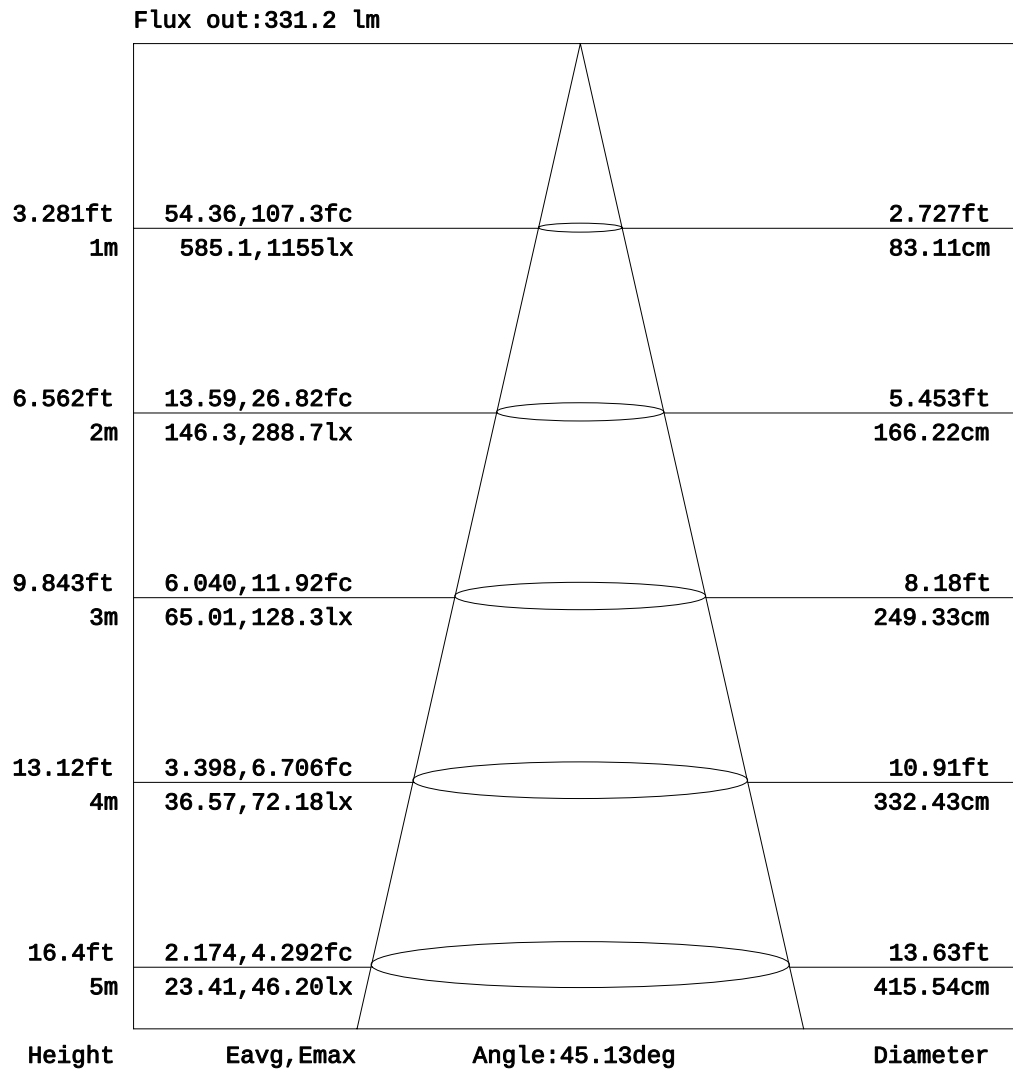


C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: tang
Test Date: 2022-04-11

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.262
Humidity: 65.0%
Test Distance: 7.100m [K=1.0000]
Remarks:

AAI Figure

NAME: Washer40-3000k-Ra90	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: VD	SUR.:	PROTECTION ANGLE:



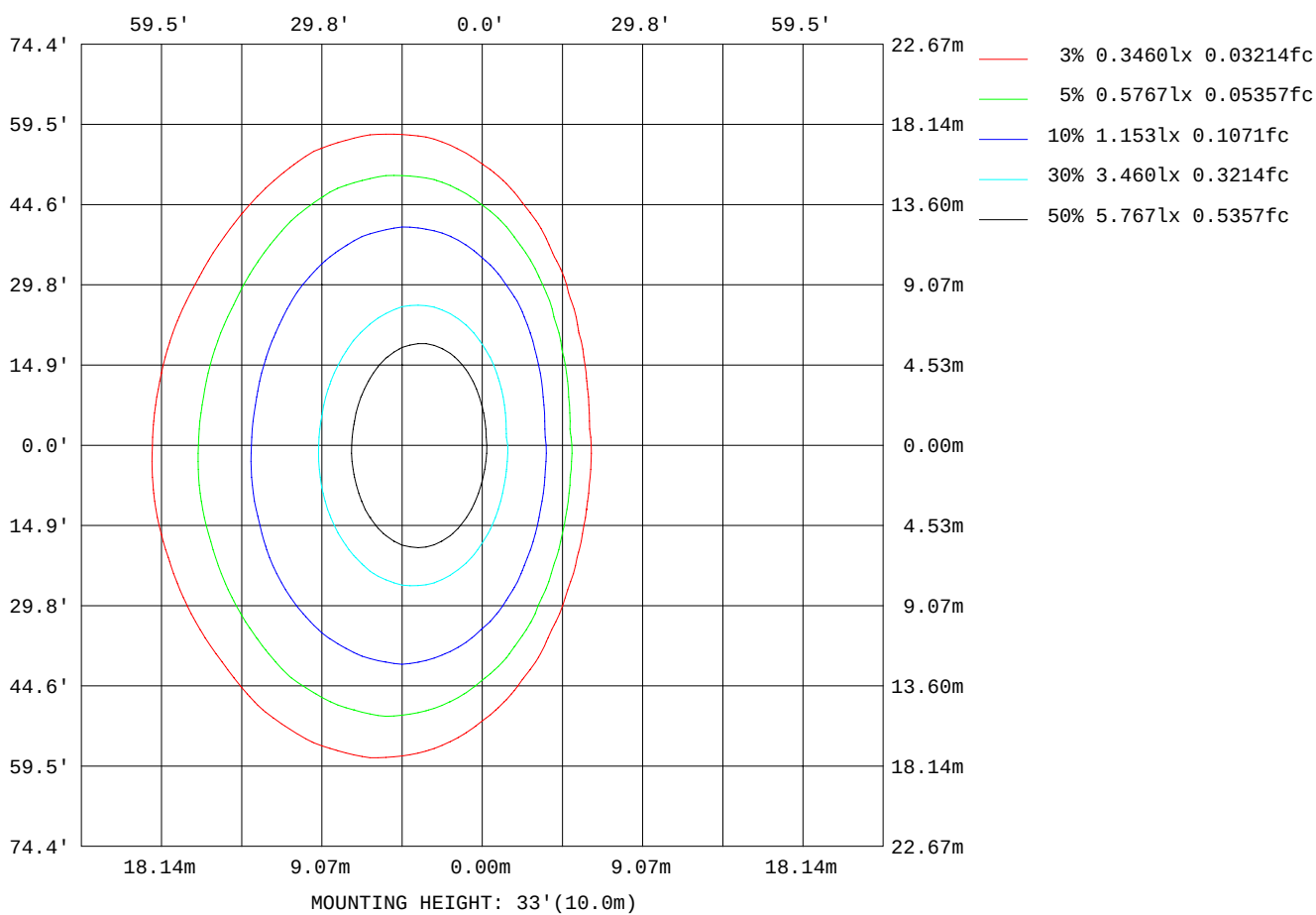
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: tang
Test Date: 2022-04-11

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.262
Humidity: 65.0%
Test Distance: 7.100m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

NAME: Washer40-3000k-Ra90	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: VD	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: tang
Test Date: 2022-04-11

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.262
Humidity: 65.0%
Test Distance: 7.100m [K=1.0000]
Remarks:

Average Luminance Table(CIBSE)

NAME: Washer40-3000k-Ra90	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: VD	SUR.:	PROTECTION ANGLE:

Parameter description for average Luminance	Symbol	Value	Unit
Luminance in Azimuth Plane	Bc	refer Table 2	cd/sq.m.
Intensity at angle Gamma in given azimuth plane	I	from data	cd/klm
Number of lamps	N	1	
Output of each lamp(initial lumens as specified)	F	1707.02	lm
Multiplying factor	K	1	
Luminous area in horizontal plane used in calculations	A	0.1	sq.m.
Angle to the downward vertical from light centre	Gamma	from data	deg

Table 1. Calculation parameters for determination of CIBSE LG3:1996 Average Luminance

G	C plane(deg)																		
deg	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
55	5	10	27	76	165	348	696	1374	2539	4245	6320	8298	9402	9885	9621	9070	8417	8124	7852
60	0	0	0	0	33	169	455	1076	2167	3847	5760	7454	8344	8644	8126	7774	7440	7324	7126
65	0	0	0	0	0	14	219	751	1791	3428	5175	6492	7294	7304	6970	6928	6861	6789	6612
70	0	0	0	0	0	0	9	408	1373	2990	4571	5704	6168	6056	6179	6294	6402	6340	6151
75	0	0	0	0	0	0	0	57	874	2499	3886	4902	4987	5258	5531	5785	5972	5978	5752
80	0	0	0	0	0	0	0	0	270	1862	3269	3914	4118	4495	4816	5203	5399	5548	5175
85	0	2	0	1	0	1	0	1	0	960	2274	2825	2793	2846	1924	1170	446	315	108

Table 2. Average Luminance(cd/sq.m.) for defined C plane,Gamma angle

CIBSE Category	Gamma (deg)	Average Luminance		Patch Luminance	
		maximum calculated	specified maximum	maximum measured	specified maximum
Category 1	55 to 90	9885	200	---	500
Category 2	65 to 90	7304	200	---	500
Category 3	75 to 90	5978	200	---	500

Table 3. Tabulation of Average and Patch Luminance(cd/sq.m.) for defined CIBSE categories

No match

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:tang
Test Date:2022-04-11

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.262
Humidity:65.0%
Test Distance:7.100m [K=1.0000]
Remarks:

Average Luminance Table(CIBSE)

NAME: Washer40-3000k-Ra90	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: VD	SUR.:	PROTECTION ANGLE:

Parameter description for average Luminance	Symbol	Value	Unit
Luminance in Azimuth Plane	Bc	refer Table 2	cd/sq.m.
Intensity at angle Gamma in given azimuth plane	I	from data	cd/klm
Number of lamps	N	1	
Output of each lamp(initial lumens as specified)	F	1707.02	lm
Multiplying factor	K	1	
Luminous area in horizontal plane used in calculations	A	0.1	sq.m.
Angle to the downward vertical from light centre	Gamma	from data	deg

Table 1. Calculation parameters for determination of CIBSE LG3:2001 Average Luminance

G	C plane(deg)																		
deg	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
55	5	10	27	76	165	348	696	1374	2539	4245	6320	8298	9402	9885	9621	9070	8417	8124	7852
60	0	0	0	0	33	169	455	1076	2167	3847	5760	7454	8344	8644	8126	7774	7440	7324	7126
65	0	0	0	0	0	14	219	751	1791	3428	5175	6492	7294	7304	6970	6928	6861	6789	6612
70	0	0	0	0	0	0	9	408	1373	2990	4571	5704	6168	6056	6179	6294	6402	6340	6151
75	0	0	0	0	0	0	0	57	874	2499	3886	4902	4987	5258	5531	5785	5972	5978	5752
80	0	0	0	0	0	0	0	0	270	1862	3269	3914	4118	4495	4816	5203	5399	5548	5175
85	0	2	0	1	0	1	0	1	0	960	2274	2825	2793	2846	1924	1170	446	315	108

Table 2. Average Luminance(cd/sq.m.) for defined C plane,Gamma angle

range (deg)	Maximum measured	Average Luminance(cd/sq.m)			
		Maximum limit for screen type & software category used			
		Type I,II screen Some neg.s'ware	Type I,II screen Only pos.s'ware	Type III screen Some neg.s'ware	Type III screen Only pos.s'ware
55 to 90	9885	1000	1500	200	500
65 to 90	7304	1000	1500	200	500

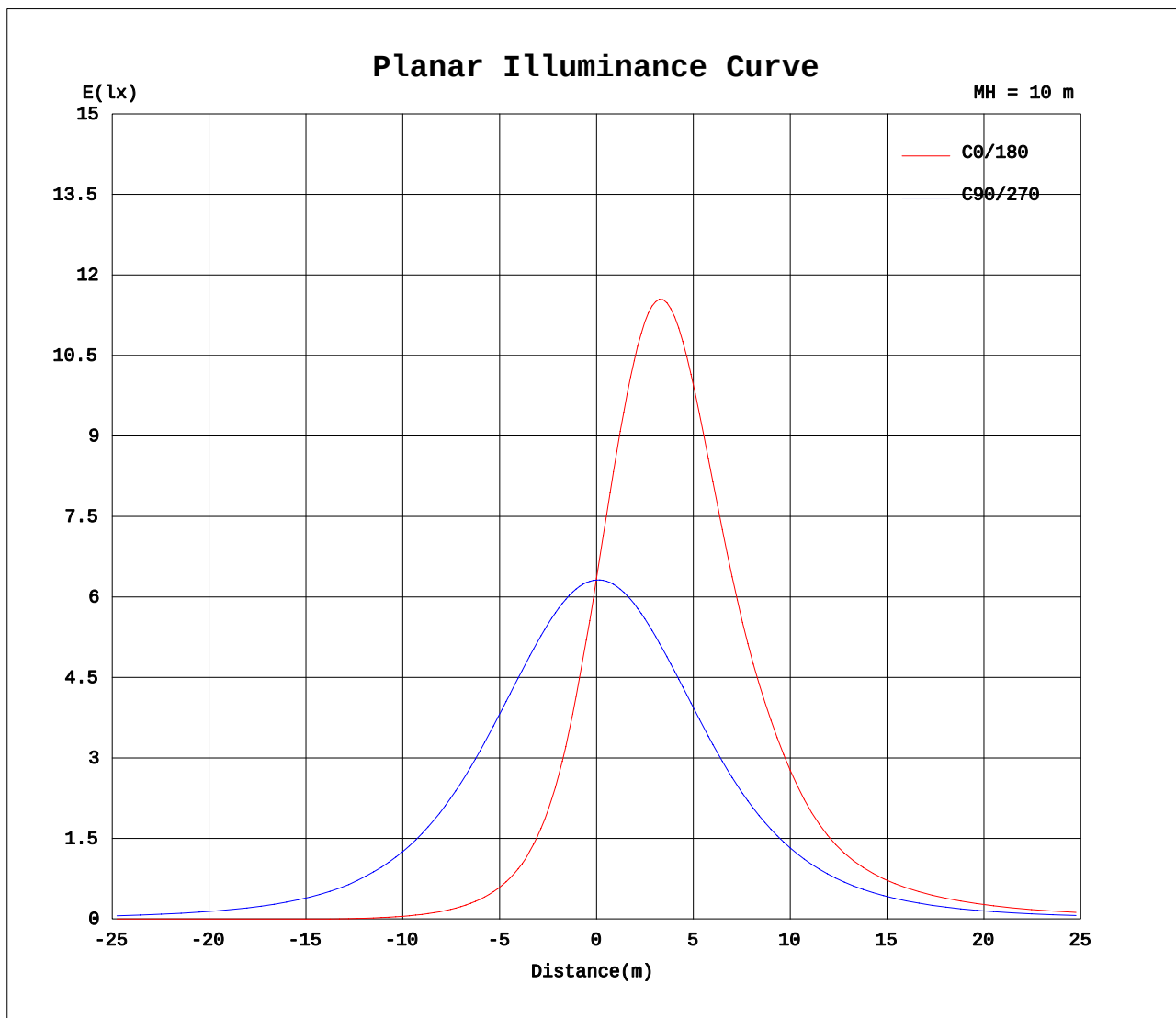
Table 3. Tabulation of average luminance(cd/sq.m.) and luminance limits

No match

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:tang
Test Date:2022-04-11

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.262
Humidity:65.0%
Test Distance:7.100m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: tang
Test Date: 2022-04-11

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.262
Humidity: 65.0%
Test Distance: 7.100m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: Washer40-3000k-Ra90	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: VD	SUR.:	PROTECTION ANGLE:

Table--1

UNIT: cd

C(°) γ (°)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
0	634	639	636	639	636	639	636	636	633	632	630	627	625	621	620	615	615	609	634
5	455	460	465	480	493	516	537	566	595	627	659	691	722	748	774	790	807	810	843
10	308	314	322	344	368	405	447	498	552	616	682	750	816	875	930	970	1004	1019	1058
15	206	208	220	237	268	311	363	432	508	598	697	800	901	993	1076	1138	1188	1212	1253
20	137	140	151	167	195	233	291	369	463	575	702	837	971	1091	1194	1270	1324	1350	1383
25	93.3	96.0	103	118	142	177	232	312	417	545	695	858	1016	1154	1261	1332	1372	1389	1407
30	63.4	65.5	71.2	83.5	103	134	184	257	368	507	673	854	1026	1166	1257	1305	1318	1320	1321
35	42.1	43.7	48.4	58.3	74.2	101	145	213	320	461	632	820	990	1117	1179	1197	1184	1171	1160
40	26.3	27.5	31.0	39.0	52.0	74.6	111	173	274	410	577	758	909	1009	1043	1038	1010	991	975
45	14.7	15.6	18.2	24.5	34.3	52.9	83.9	138	234	356	511	675	797	864	877	867	833	808	784
50	6.05	6.69	8.50	12.8	20.3	34.5	60.3	107	186	301	438	580	670	710	712	692	644	615	590
55	0.26	0.56	1.56	4.35	9.48	19.9	39.9	78.8	146	243	363	476	539	567	552	520	483	466	450
60	0.02	0.00	0.01	0.00	1.63	8.45	22.7	53.8	108	192	288	373	417	432	406	389	372	366	356
65	0.00	0.00	0.00	0.00	0.00	0.57	9.24	31.8	75.7	145	219	274	308	309	295	293	290	287	279
70	0.00	0.00	0.00	0.00	0.00	0.00	0.30	13.9	47.0	102	156	195	211	207	211	215	219	217	210
75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.47	22.6	64.7	101	127	129	136	143	150	155	155	149
80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.69	32.3	56.8	68.0	71.5	78.0	83.6	90.3	93.7	96.3	89.9
85	0.00	0.02	0.00	0.01	0.00	0.00	0.00	0.00	0.00	8.37	19.8	24.6	24.3	24.8	16.8	10.2	3.89	2.75	0.94
90	0.06	0.09	0.04	0.09	0.04	0.08	0.03	0.06	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	0.19	0.23	0.18	0.21	0.16	0.21	0.16	0.18	0.08	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100	0.36	0.40	0.35	0.38	0.34	0.39	0.33	0.33	0.21	0.15	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105	0.57	0.60	0.55	0.60	0.57	0.62	0.56	0.53	0.38	0.27	0.09	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110	0.81	0.85	0.81	0.87	0.85	0.90	0.82	0.76	0.57	0.43	0.20	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115	1.13	1.17	1.14	1.20	1.19	1.23	1.12	1.03	0.80	0.60	0.33	0.19	0.02	0.00	0.00	0.00	0.00	0.00	0.00
120	1.54	1.56	1.54	1.59	1.58	1.58	1.45	1.32	1.04	0.80	0.48	0.29	0.10	0.03	0.00	0.00	0.00	0.00	0.00
125	2.00	2.02	1.99	2.03	2.00	1.97	1.80	1.62	1.29	1.00	0.65	0.42	0.19	0.11	0.00	0.00	0.00	0.00	0.00
130	2.50	2.52	2.48	2.49	2.42	2.36	2.14	1.93	1.56	1.23	0.83	0.57	0.30	0.19	0.05	0.04	0.00	0.01	0.03
135	3.02	3.02	2.95	2.95	2.83	2.72	2.47	2.22	1.83	1.45	1.02	0.73	0.43	0.30	0.14	0.12	0.05	0.07	0.08
140	3.44	3.46	3.37	3.34	3.18	3.04	2.76	2.48	2.05	1.66	1.21	0.92	0.58	0.42	0.25	0.20	0.11	0.13	0.15
145	3.77	3.79	3.67	3.62	3.43	3.28	2.96	2.68	2.25	1.86	1.41	1.09	0.75	0.57	0.36	0.31	0.20	0.21	0.25
150	3.98	4.00	3.88	3.81	3.61	3.45	3.12	2.84	2.41	2.05	1.60	1.29	0.93	0.74	0.53	0.45	0.33	0.34	0.38
155	4.06	4.04	3.99	3.86	3.70	3.49	3.22	2.95	2.55	2.21	1.78	1.49	1.16	0.96	0.74	0.65	0.53	0.52	0.58
160	4.04	4.03	3.97	3.86	3.69	3.49	3.24	2.95	2.63	2.35	1.98	1.70	1.40	1.22	1.01	0.91	0.79	0.78	0.85
165	3.92	3.87	3.85	3.70	3.62	3.40	3.21	2.94	2.68	2.46	2.15	1.94	1.68	1.53	1.33	1.26	1.13	1.13	1.21
170	3.64	3.58	3.58	3.46	3.39	3.21	3.09	2.88	2.68	2.54	2.31	2.17	1.97	1.86	1.70	1.66	1.55	1.56	1.64
175	3.22	3.17	3.17	3.09	3.06	2.94	2.90	2.76	2.68	2.61	2.45	2.40	2.26	2.23	2.13	2.12	2.04	2.07	2.15
180	2.72	2.70	2.69	2.67	2.67	2.65	2.65	2.64	2.63	2.62	2.58	2.59	2.57	2.58	2.58	2.58	2.57	2.59	2.69

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: tang
Test Date: 2022-04-11

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.262
Humidity: 65.0%
Test Distance: 7.100m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: Washer40-3000k-Ra90	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: VD	SUR.:	PROTECTION ANGLE:

Table--2

UNIT: cd

C(°) γ (°)	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350		
0	639	636	639	636	639	636	636	633	632	630	627	625	621	620	615	615	609		
5	844	832	820	795	770	737	704	667	631	595	561	532	503	483	462	450	438		
10	1056	1032	1002	953	900	834	766	694	623	557	497	446	398	363	332	313	298		
15	1247	1214	1168	1098	1017	919	818	712	609	517	435	367	308	263	234	211	200		
20	1373	1339	1288	1208	1109	987	855	719	589	475	376	298	237	193	166	146	134		
25	1394	1371	1329	1261	1161	1028	874	714	561	431	322	237	182	142	117	101	91.9		
30	1309	1301	1279	1238	1156	1029	866	692	524	387	272	191	138	105	83.0	70.4	62.8		
35	1150	1155	1154	1144	1089	984	828	652	480	340	228	152	105	76.4	58.3	47.9	41.8		
40	967	978	988	998	969	896	762	597	429	294	188	120	78.3	54.2	39.2	30.9	26.2		
45	778	799	817	833	821	781	677	531	375	245	152	91.7	56.2	36.2	24.4	18.2	14.7		
50	586	609	639	671	672	653	577	455	318	202	118	67.3	37.5	21.9	13.1	8.64	6.09		
55	447	458	476	512	533	524	469	376	261	161	88.5	45.9	22.1	10.7	4.55	1.61	0.30		
60	352	355	358	376	399	404	364	298	206	123	61.9	27.3	10.0	2.43	0.05	0.00	0.05		
65	277	273	273	271	282	293	271	222	156	87.6	38.4	12.5	1.34	0.00	0.02	0.00	0.03		
70	210	206	202	196	194	195	191	157	109	56.5	18.4	1.81	0.01	0.00	0.00	0.00	0.00		
75	147	144	137	133	126	121	118	103	69.6	30.1	3.80	0.00	0.00	0.00	0.00	0.00	0.00		
80	87.8	86.7	80.5	77.3	70.4	66.6	61.5	56.7	36.1	9.30	0.02	0.00	0.00	0.00	0.00	0.00	0.00		
85	0.91	1.50	2.51	7.61	13.3	19.7	19.5	18.6	9.80	0.02	0.01	0.03	0.00	0.04	0.00	0.05	0.00		
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.04	0.10	0.07	0.12	0.08	0.12	0.09		
95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.14	0.16	0.24	0.21	0.26	0.22	0.26	0.22		
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.12	0.27	0.32	0.42	0.40	0.45	0.40	0.43	0.41		
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.24	0.43	0.52	0.64	0.64	0.68	0.63	0.65	0.60		
110	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.25	0.38	0.60	0.75	0.91	0.92	0.97	0.91	0.93	0.86		
115	0.00	0.00	0.00	0.00	0.00	0.06	0.14	0.36	0.55	0.84	1.01	1.20	1.25	1.32	1.27	1.26	1.19		
120	0.00	0.00	0.00	0.00	0.00	0.13	0.24	0.51	0.74	1.08	1.30	1.54	1.62	1.70	1.66	1.65	1.59		
125	0.00	0.00	0.00	0.03	0.05	0.21	0.35	0.67	0.94	1.33	1.59	1.88	1.99	2.11	2.08	2.10	2.02		
130	0.00	0.02	0.00	0.09	0.13	0.32	0.50	0.83	1.16	1.58	1.89	2.20	2.36	2.50	2.51	2.54	2.49		
135	0.03	0.08	0.07	0.17	0.23	0.44	0.64	1.02	1.37	1.82	2.16	2.52	2.70	2.88	2.92	2.97	2.94		
140	0.09	0.16	0.15	0.27	0.35	0.59	0.81	1.21	1.58	2.06	2.40	2.78	2.99	3.21	3.27	3.36	3.34		
145	0.19	0.26	0.27	0.40	0.50	0.76	1.01	1.41	1.77	2.25	2.61	2.99	3.22	3.46	3.55	3.67	3.66		
150	0.33	0.40	0.42	0.57	0.69	0.95	1.21	1.60	1.97	2.43	2.77	3.16	3.38	3.63	3.73	3.87	3.87		
155	0.53	0.60	0.64	0.80	0.92	1.19	1.43	1.81	2.13	2.56	2.88	3.21	3.46	3.67	3.83	3.90	3.96		
160	0.80	0.88	0.92	1.07	1.19	1.44	1.66	2.00	2.27	2.65	2.93	3.21	3.46	3.66	3.80	3.89	3.97		
165	1.16	1.23	1.26	1.40	1.50	1.73	1.90	2.18	2.39	2.66	2.92	3.16	3.41	3.53	3.69	3.73	3.83		
170	1.60	1.66	1.67	1.79	1.85	2.03	2.13	2.36	2.49	2.68	2.90	3.02	3.22	3.30	3.45	3.46	3.54		
175	2.10	2.16	2.13	2.22	2.23	2.34	2.37	2.51	2.55	2.64	2.78	2.82	2.95	2.97	3.06	3.06	3.13		
180	2.66	2.67	2.63	2.64	2.61	2.62	2.60	2.60	2.59	2.60	2.62	2.61	2.61	2.60	2.62	2.61	2.63		

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:tang
Test Date:2022-04-11

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.262
Humidity:65.0%
Test Distance:7.100m [K=1.0000]
Remarks: