

Scaled data based on original data using
LM-66-11 Electrical and Photometric Measurements of Single-Ended Compact
Fluorescent Lamps

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: SHAPER

Report Number: ITL55891

Luminaire Tested: **HLCFL/6/55W (FIXTURES 1200, 1215, 1220, 1240, 1250, 1270)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-66-11
Report Number: ITL55891
Test Lab: INDEPENDENT TESTING LABORATORIES, INC.
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: HLCFL/6/55W (FIXTURES 1200, 1215, 1220, 1240, 1250, 1270)
Description: FABRICATED SEMI-SPECULAR METAL MOUNTING PLATE, FOUR FORMED METAL REFLECTORS WITH PREMIUM SPECULAR FINISH, OPEN SOCKET ENDS AND TOP.
Light Source: EIGHT 55-WATT SINGLE ENDED TWIN TUBE FLUORESCENTS, SYLVANIA FT55DL/830. LAMPS HORIZONTAL WITH TUBES VERTICAL.
Ballast/Driver: FOUR UNIVERSAL B254PUNV-D

Summary

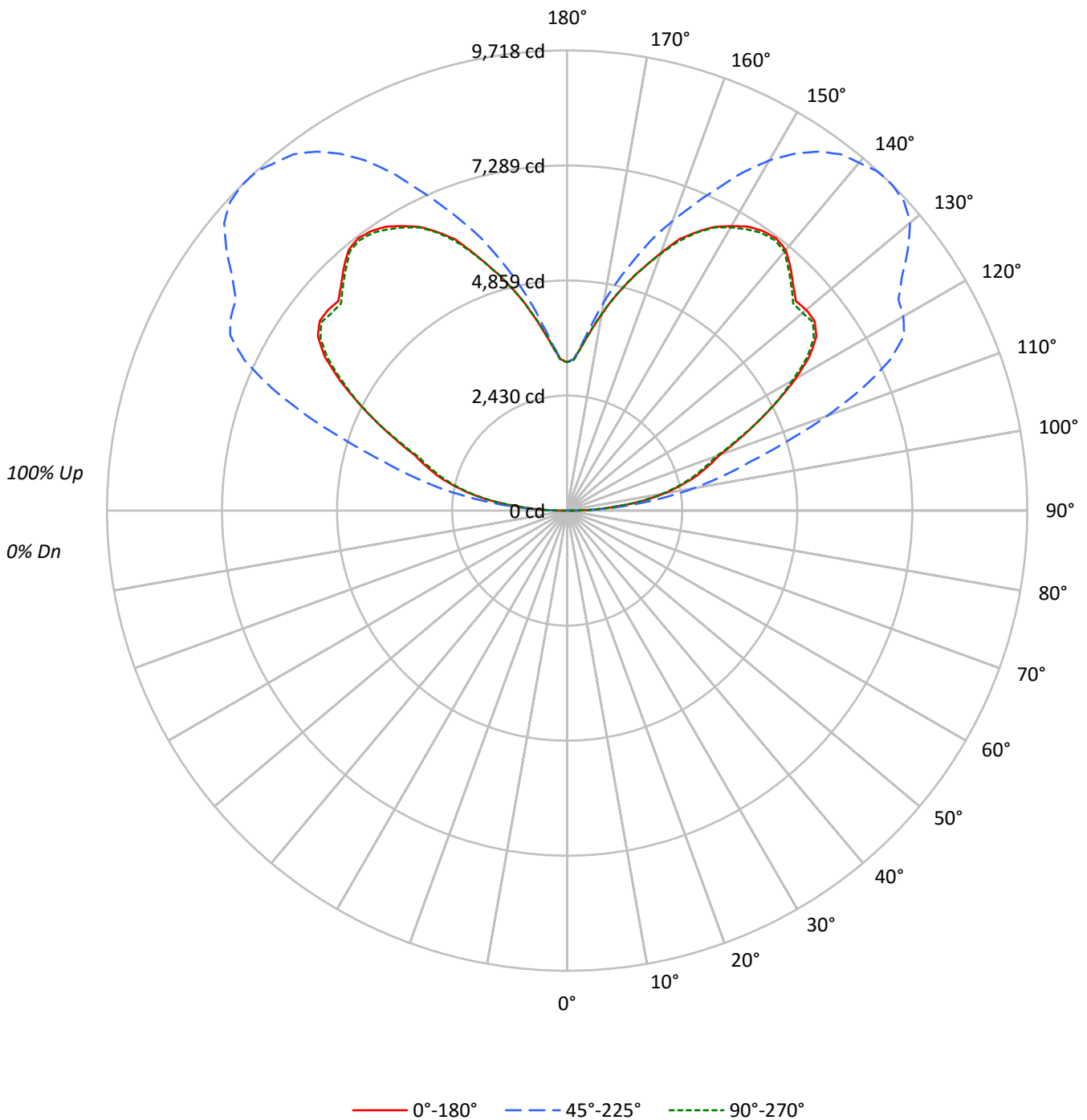
Lumens per Lamp: 4800 (8 lamps)
Luminaire Lumens: 35396.9 lumens
Efficiency: 92.2%
Efficacy: 79.7 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Vertical Cylinder (Dia: 3.23' x H: 0.16')
CIE Type: Indirect

Input Watts (W): 444
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			20
RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	88	88	88	88	75	75	75	75	51	51	51	30	30	30	10	10	10	0
1	80	76	73	70	68	65	63	60	45	43	42	26	25	24	8	8	8	0
2	73	66	61	57	62	57	53	49	39	36	34	23	21	20	7	7	7	0
3	66	58	52	47	56	50	45	41	34	31	29	20	18	17	6	6	6	0
4	60	51	45	40	51	44	39	34	30	27	24	18	16	14	6	5	5	0
5	55	45	39	34	47	39	33	29	27	23	21	16	14	12	5	4	4	0
6	51	40	34	29	43	35	29	25	24	20	18	14	12	11	5	4	3	0
7	47	36	29	25	40	31	26	22	22	18	15	13	11	9	4	3	3	0
8	43	33	26	22	37	28	23	19	19	16	13	11	9	8	4	3	3	0
9	40	29	23	19	34	25	20	16	18	14	12	10	8	7	3	3	2	0
10	37	27	21	17	31	23	18	14	16	13	10	9	7	6	3	2	2	0

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	0	0	0
5°	0	0	0
10°	0	0	0
15°	0	0	0
20°	0	0	0
25°	0	0	0
30°	0	0	0
35°	0	0	0
40°	0	0	0
45°	0	0	0
50°	0	0	0
55°	0	0	0
60°	0	0	0
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	0.0	0.0	0.0
10°-20°	0.0	0.0	0.0
20°-30°	0.0	0.0	0.0
30°-40°	0.0	0.0	0.0
40°-50°	0.0	0.0	0.0
50°-60°	0.0	0.0	0.0
60°-70°	0.0	0.0	0.0
70°-80°	0.0	0.0	0.0
80°-90°	103.6	0.3	0.3
90°-100°	1456.0	4.1	3.8
100°-110°	3950.0	11.2	10.3
110°-120°	6105.4	17.2	15.9
120°-130°	7019.4	19.8	18.3
130°-140°	6485.4	18.3	16.9
140°-150°	5188.2	14.7	13.5
150°-160°	3287.8	9.3	8.6
160°-170°	1518.6	4.3	4.0
170°-180°	360.1	1.0	0.9
0°-30°	0.0	0.0	0.0
0°-40°	0.0	0.0	0.0
0°-60°	0.0	0.0	0.0
0°-90°	103.6	0.3	0.3
90°-120°	11511.4	32.5	30.0
90°-150°	30204.4	85.3	78.7
90°-180°	35371.0	99.9	92.1
0°-180°	35396.9	100.0	92.2

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	0	0	0	0	0	
5°	0	0	0	0	0	0
15°	0	0	0	0	0	0
25°	0	0	0	0	0	0
35°	0	0	0	0	0	0
45°	0	0	0	0	0	0
55°	0	0	0	0	0	0
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	90	247	205	201	123	111
95°	1093	1426	1335	1385	1077	1116
105°	2827	4154	4019	4113	2753	2946
115°	4446	6501	7520	6480	4446	4421
125°	6427	8309	8633	8317	6361	5635
135°	6747	8588	9718	8609	6698	5251
145°	7207	8358	9254	8383	7158	4499
155°	6492	7158	7503	7191	6476	3002
165°	5005	5268	5490	5305	5005	1440
175°	3468	3464	3517	3493	3476	355
180°	3136	3136	3136	3136	3136	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	0	0	0	0	0
87.5°	0	0	0	0	0
90°	90	247	205	201	123
92.5°	633	773	715	773	600
95°	1093	1426	1335	1385	1077
97.5°	1652	2059	2013	2038	1619
100°	2079	2798	2720	2753	2038
102.5°	2457	3526	3361	3480	2416
105°	2827	4154	4019	4113	2753
107.5°	3123	4598	4873	4541	3049
110°	3427	5136	5839	5091	3353
112.5°	3920	5798	6743	5769	3879
115°	4446	6501	7520	6480	4446
117.5°	5005	7117	8025	7084	4997
120°	5572	7692	8198	7676	5498
122.5°	6073	8111	8296	8070	5999
125°	6427	8309	8633	8317	6361
127.5°	6583	8350	9073	8317	6542
130°	6591	8313	9455	8288	6492
132.5°	6550	8436	9652	8440	6476
135°	6747	8588	9718	8609	6698
137.5°	6977	8678	9710	8720	6920
140°	7183	8650	9591	8691	7142
142.5°	7248	8539	9484	8572	7199
145°	7207	8358	9254	8383	7158
147.5°	7109	8099	8933	8140	7043
150°	6936	7861	8539	7918	6903
152.5°	6755	7532	8054	7585	6739
155°	6492	7158	7503	7191	6476
157.5°	6205	6710	6994	6743	6155
160°	5786	6225	6505	6266	5769
162.5°	5383	5736	6024	5769	5383
165°	5005	5268	5490	5305	5005
167.5°	4619	4771	4980	4804	4610
170°	4208	4310	4471	4323	4224
172.5°	3821	3875	3949	3900	3838
175°	3468	3464	3517	3493	3476
177.5°	3197	3168	3197	3172	3180
180°	3136	3136	3136	3136	3136

(END OF REPORT)