

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: FAIL-SAFE

Report Number: 01287

Luminaire Tested: **FSRC-64**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: 01287
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FSRC-64
Description: FORMED STEEL HOUSING, WHITE ENAMEL REFLECTOR, CLEAR
PLASTIC LENS.
Light Source: TWO FO32T8/31K RATED 2900 LUMENS.
Ballast/Driver: MAGNETEK 749-L-SLH-TC-P

Summary

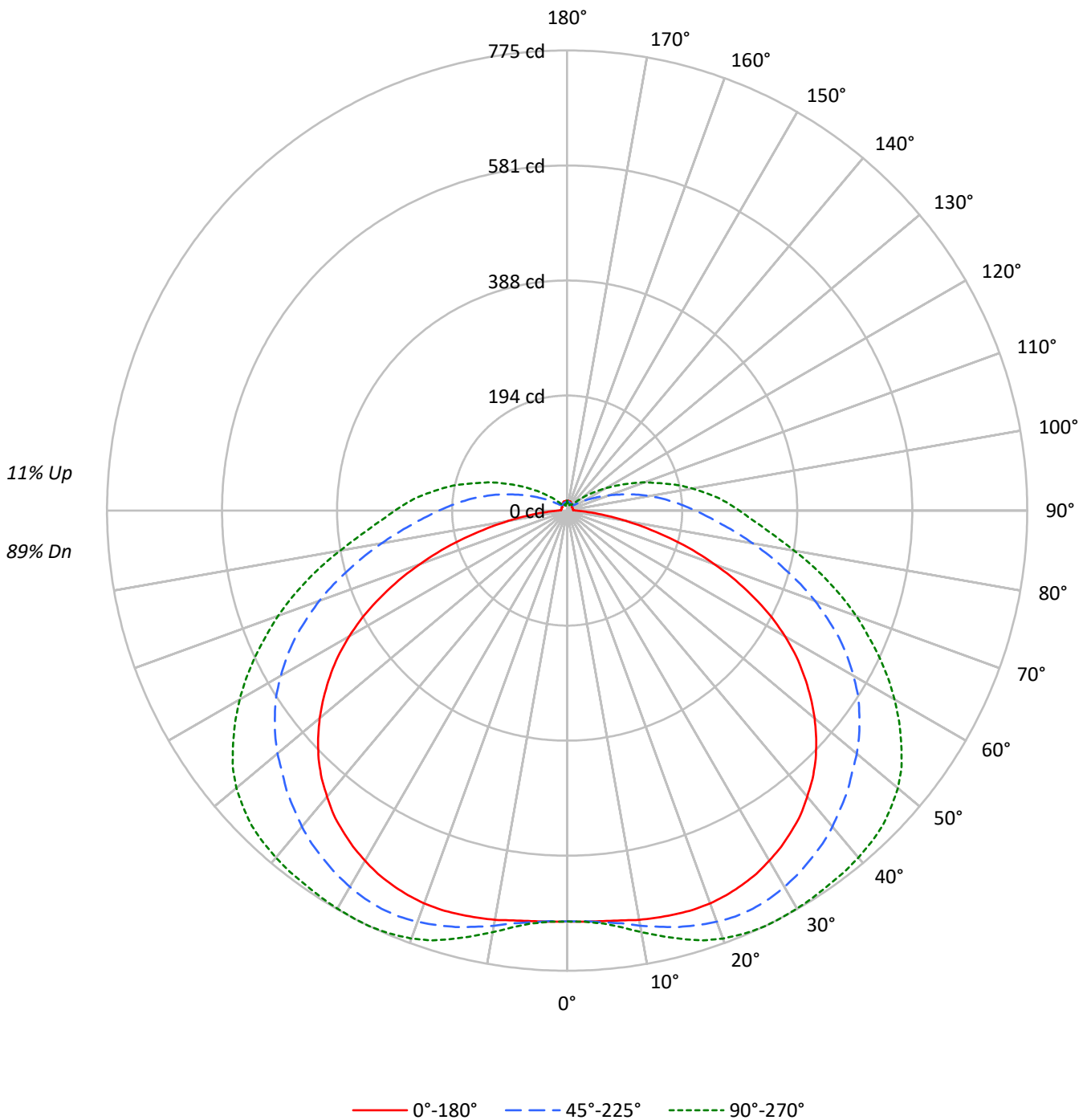
Lumens per Lamp: 2900 (2 lamps)
Luminaire Lumens: 3600.0 lumens
Efficiency: 62.1%
Efficacy: 51.4 lumens/watt
Spacing Criteria (0/90/45): 1.45 / 1.67 / 1.68
Luminous Opening: Rectangular w/ Sides (W: 0.89' x L: 4.42' x H: 0.29')
CIE Type: Semi-Direct

Input Watts (W): 70
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	
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	72	72	72	72	70	70	70	70	65	65	65	61	61	61	57	57	57	55
1	64	60	57	54	62	58	55	52	54	52	49	51	49	47	47	46	44	42
2	57	51	46	42	55	50	45	41	46	42	39	43	40	37	40	38	35	34
3	52	44	39	34	50	43	37	33	40	35	32	37	33	30	35	32	29	27
4	47	39	33	28	45	37	32	27	35	30	26	33	29	25	31	27	24	23
5	43	34	28	24	41	33	27	23	31	26	22	29	25	21	27	24	21	19
6	39	31	25	20	38	30	24	20	28	23	19	26	22	19	24	21	18	16
7	36	27	22	18	35	27	21	17	25	20	17	24	19	16	22	18	16	14
8	34	25	19	16	32	24	19	15	23	18	15	21	17	14	20	17	14	12
9	31	23	17	14	30	22	17	14	21	16	13	20	16	13	19	15	12	11
10	29	21	16	12	28	20	15	12	19	15	12	18	14	11	17	14	11	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1893	1893	1893
5°	1895	1867	1864
10°	1923	1881	1894
15°	1960	1915	1946
20°	2002	1950	1997
25°	2039	1979	2031
30°	2073	1994	2058
35°	2105	2003	2092
40°	2130	2015	2140
45°	2150	2025	2192
50°	2148	2039	2229
55°	2129	2055	2237
60°	2084	2060	2228
65°	1975	2052	2207
70°	1789	2018	2187
75°	1520	1971	2161
80°	1160	1944	2147
85°	754	1968	2206



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	66.9	1.9	1.2	0°	692	692	692	692	692	
10°-20°	205.9	5.7	3.5	5°	694	694	696	699	698	66
20°-30°	340.7	9.5	5.9	15°	704	710	726	741	747	199
30°-40°	448.1	12.4	7.7	25°	696	712	740	765	775	321
40°-50°	516.3	14.3	8.9	35°	659	676	716	753	769	413
50°-60°	530.0	14.7	9.1	45°	592	611	668	726	751	456
60°-70°	478.5	13.3	8.2	55°	488	518	601	665	687	436
70°-80°	374.1	10.4	6.5	65°	348	408	505	559	579	343
80°-90°	255.4	7.1	4.4	75°	179	284	379	436	453	190
90°-100°	172.2	4.8	3.0	85°	42	160	261	317	332	47
100°-110°	103.5	2.9	1.8	90°	15	117	216	273	290	9
110°-120°	53.0	1.5	0.9	95°	10	86	177	236	254	8
120°-130°	24.3	0.7	0.4	105°	10	34	105	156	174	11
130°-140°	11.7	0.3	0.2	115°	10	12	50	89	104	10
140°-150°	8.1	0.2	0.1	125°	10	11	20	43	52	9
150°-160°	6.1	0.2	0.1	135°	12	12	13	17	20	9
160°-170°	3.9	0.1	0.1	145°	13	12	13	13	12	8
170°-180°	1.4	0.0	0.0	155°	15	14	13	12	11	7
0°-30°	613.4	17.0	10.6	165°	16	15	14	12	9	5
0°-40°	1061.5	29.5	18.3	175°	17	16	15	13	13	2
0°-60°	2107.8	58.5	36.3	180°	17	17	17	17	17	
0°-90°	3215.7	89.3	55.4							
90°-120°	328.8	9.1	5.7							
90°-150°	372.9	10.4	6.4							
90°-180°	384.0	10.7	6.6							
0°-180°	3600.0	100.0	62.1							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	692	692	692	692	692
2.5°	693	692	692	694	693
5°	694	694	696	699	698
7.5°	696	697	701	706	708
10°	700	702	710	718	721
12.5°	702	707	718	730	734
15°	704	710	726	741	747
17.5°	705	714	732	751	759
20°	704	716	737	758	767
22.5°	701	715	740	763	772
25°	696	712	740	765	775
27.5°	690	706	737	764	775
30°	681	697	732	762	774
32.5°	671	688	725	758	772
35°	659	676	716	753	769
37.5°	646	663	707	747	767
40°	629	648	695	741	763
42.5°	612	630	681	735	758
45°	592	611	668	726	751
47.5°	569	590	651	715	740
50°	544	568	637	702	727
52.5°	517	544	620	686	710
55°	488	518	601	665	687
57.5°	458	492	581	642	663
60°	424	465	557	616	637
62.5°	388	437	532	589	609
65°	348	408	505	559	579
67.5°	307	379	474	528	548
70°	264	348	444	497	518
72.5°	222	317	412	467	486
75°	179	284	379	436	453
77.5°	137	252	348	405	421
80°	101	219	317	373	388
82.5°	69	189	288	343	358
85°	42	160	261	317	332
87.5°	24	135	237	294	309
90°	15	117	216	273	290
92.5°	11	101	196	255	272
95°	10	86	177	236	254
97.5°	10	72	159	216	233
100°	10	58	140	195	214
102.5°	10	45	123	176	195
105°	10	34	105	156	174
107.5°	10	24	89	137	155
110°	10	18	75	121	139



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	10	14	62	105	121
115°	10	12	50	89	104
117.5°	10	12	41	76	89
120°	10	11	32	63	75
122.5°	10	11	25	52	63
125°	10	11	20	43	52
127.5°	11	11	17	35	42
130°	11	11	14	27	34
132.5°	11	11	14	21	26
135°	12	12	13	17	20
137.5°	12	12	13	15	16
140°	13	12	13	14	14
142.5°	13	12	13	13	13
145°	13	12	13	13	12
147.5°	14	13	13	13	12
150°	14	13	13	13	11
152.5°	14	14	13	12	11
155°	15	14	13	12	11
157.5°	16	15	14	12	10
160°	16	15	14	13	10
162.5°	16	15	14	13	10
165°	16	15	14	12	9
167.5°	16	16	15	13	11
170°	16	16	15	12	11
172.5°	16	16	15	13	12
175°	17	16	15	13	13
177.5°	17	16	16	13	12
180°	17	17	17	17	17

(END OF REPORT)