

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: 89180

Luminaire Tested: **E2-SH-3T5-DL-7**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 89180
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: E2-SH-3T5-DL-7
Description: CORELITE ELEMENT SUSPENDED LUMINAIRE WITH
WHITE INTERIOR WITH SPECULAR REFLECTORS AND 38 CELL HI PERFORMANCE LOUVER
BLADE
WITH DOWNLIGHT ISOLATORS
Light Source: 54 WATT T5 LAMPS
FP54T5/841HO. LUMEN RATING = 4500 LMS.
Ballast/Driver: -

Summary

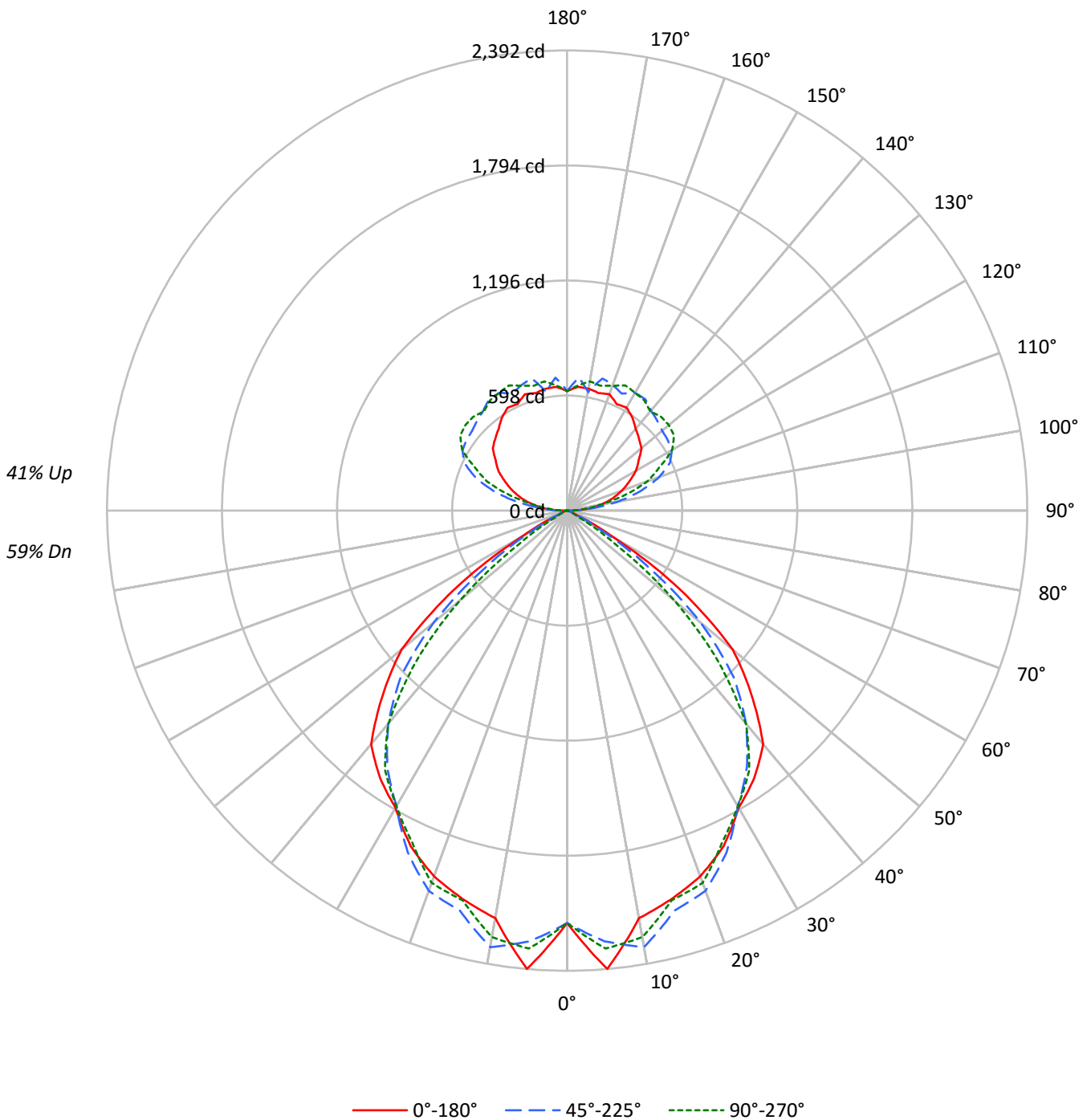
Lumens per Lamp: 4500 (3 lamps)
Luminaire Lumens: 7311.2 lumens
Efficiency: 54.2%
Efficacy: 41.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.23 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.57' x L: 3.98' x H: 0.33')
CIE Type: General Diffuse

Input Watts (W): 177
Input Voltage (V): NR
Input Current (Ain): 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	59	59	59	59	55	55	55	55	48	48	48	41	41	41	35	35	35	32
1	55	53	51	49	51	50	48	47	43	42	41	37	37	36	32	32	31	29
2	51	47	44	42	47	44	42	40	39	37	35	34	33	31	29	28	28	25
3	47	42	39	36	44	40	37	34	35	33	31	31	29	28	27	25	24	23
4	43	38	34	31	40	36	32	30	32	29	27	28	26	24	24	23	22	20
5	40	34	30	27	37	32	29	26	29	26	24	25	23	22	22	21	19	18
6	37	31	27	24	35	29	26	23	26	23	21	23	21	19	20	19	17	16
7	34	28	24	21	32	27	23	20	24	21	19	21	19	17	19	17	16	14
8	32	26	22	19	30	24	21	18	22	19	17	20	17	16	17	16	14	13
9	30	24	20	17	28	22	19	17	20	17	15	18	16	14	16	14	13	12
10	28	22	18	16	26	21	17	15	19	16	14	17	14	13	15	13	12	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10085	10085	10085
5°	11213	10198	10272
10°	10128	10170	9763
15°	9963	9320	8850
20°	9829	9002	8523
25°	9618	8358	7795
30°	9247	7595	7233
35°	9205	7051	6749
40°	9096	6385	5983
45°	8326	5547	4702
50°	7480	4258	3158
55°	5273	2590	1407
60°	2272	1058	309
65°	494	301	86
70°	233	159	37
75°	157	114	18
80°	107	77	8
85°	141	83	30



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	213.7	2.9	1.6
10°-20°	610.3	8.3	4.5
20°-30°	897.8	12.3	6.7
30°-40°	1036.1	14.2	7.7
40°-50°	943.4	12.9	7.0
50°-60°	478.5	6.5	3.5
60°-70°	72.6	1.0	0.5
70°-80°	13.5	0.2	0.1
80°-90°	13.2	0.2	0.1
90°-100°	138.5	1.9	1.0
100°-110°	362.6	5.0	2.7
110°-120°	511.2	7.0	3.8
120°-130°	542.5	7.4	4.0
130°-140°	495.1	6.8	3.7
140°-150°	419.3	5.7	3.1
150°-160°	310.9	4.3	2.3
160°-170°	189.7	2.6	1.4
170°-180°	62.4	0.9	0.5
0°-30°	1721.9	23.6	12.8
0°-40°	2758.0	37.7	20.4
0°-60°	4179.8	57.2	31.0
0°-90°	4279.1	58.5	31.7
90°-120°	1012.3	13.8	7.5
90°-150°	2469.1	33.8	18.3
90°-180°	3032.0	41.5	22.5
0°-180°	7311.2	100.0	54.2

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2144	2144	2144	2144	2144	
5°	2392	2177	2248	2307	2285	217
15°	2092	2202	2153	2202	2098	591
25°	1925	2020	1960	1897	1905	883
35°	1696	1725	1629	1627	1650	1060
45°	1356	1344	1223	1187	1114	1045
55°	719	677	526	378	313	631
65°	52	59	54	30	17	98
75°	11	16	17	8	3	13
85°	5	6	10	9	4	5
90°	18	22	24	42	21	21
95°	109	138	124	134	83	99
105°	244	361	397	346	309	256
115°	355	480	590	563	528	353
125°	453	551	638	687	678	408
135°	528	617	662	677	690	409
145°	590	622	707	692	699	369
155°	610	662	671	661	717	287
165°	632	655	710	672	671	181
175°	645	686	694	617	653	61
180°	621	621	621	621	621	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2143.9	2143.9	2143.9	2143.9	2143.9
5°	2391.8	2177.0	2247.8	2306.8	2285.1
10°	2151.5	2190.4	2304.3	2235.6	2251.6
15°	2091.5	2201.7	2152.9	2201.5	2097.9
20°	2022.9	2100.1	2103.4	2072.2	2059.6
25°	1924.9	2020.0	1960.4	1896.8	1905.3
30°	1784.2	1880.3	1774.8	1799.1	1774.6
35°	1696.3	1724.6	1628.8	1627.2	1649.6
40°	1584.8	1539.6	1446.7	1428.4	1445.5
45°	1355.7	1343.7	1222.6	1187.1	1114.0
50°	1123.5	1073.2	905.3	777.8	727.9
55°	719.4	676.7	526.2	377.7	312.8
60°	276.3	262.0	203.3	111.6	65.7
65°	52.3	58.6	54.0	30.0	17.3
70°	20.8	25.6	26.3	15.1	7.0
75°	11.3	16.3	17.2	7.8	3.1
80°	5.8	9.6	10.3	4.0	1.3
85°	5.1	6.0	9.7	8.7	4.2
90°	18.4	21.7	24.2	41.7	20.7
95°	109.4	138.3	124.5	134.1	83.3
100°	179.4	256.6	264.7	244.7	169.5
105°	244.0	361.4	397.2	346.5	309.2
110°	301.7	445.6	508.7	463.1	442.3
115°	355.2	480.2	589.6	563.2	527.6
120°	412.4	540.1	627.8	623.8	629.6
125°	453.1	551.1	638.4	686.8	678.1
130°	504.1	568.0	644.8	674.0	690.4
135°	528.4	617.2	661.7	677.1	689.6
140°	554.3	623.2	677.7	706.1	672.0
145°	590.2	621.7	706.9	692.0	698.7
150°	617.6	653.8	705.9	713.6	706.1
155°	610.5	661.7	670.6	660.6	717.4
160°	643.2	669.1	694.3	663.8	689.7
165°	632.4	655.3	710.5	672.4	671.3
170°	643.1	652.0	625.4	681.1	681.7
175°	645.1	685.9	693.6	616.7	652.7
180°	621.0	621.0	621.0	621.0	621.0

(END OF REPORT)