

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: 89193

Luminaire Tested: **E2-SH-3T5-DL-2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 89193
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: E2-SH-3T5-DL-2
Description: CORELITE ELEMENT SUSPENDED LUMINAIRE
WHITE INTERIOR WITH SPECULAR REFLECTORS AND 38 CELL HI PERFORMANCE LOUVER
BLADE
WITH DOWNLIGHT ISOLATORS
Light Source: 54 WATT T5 LAMP
FP54T5/841HO. LUMEN RATING = 4500 LMS.
Ballast/Driver: -

Summary

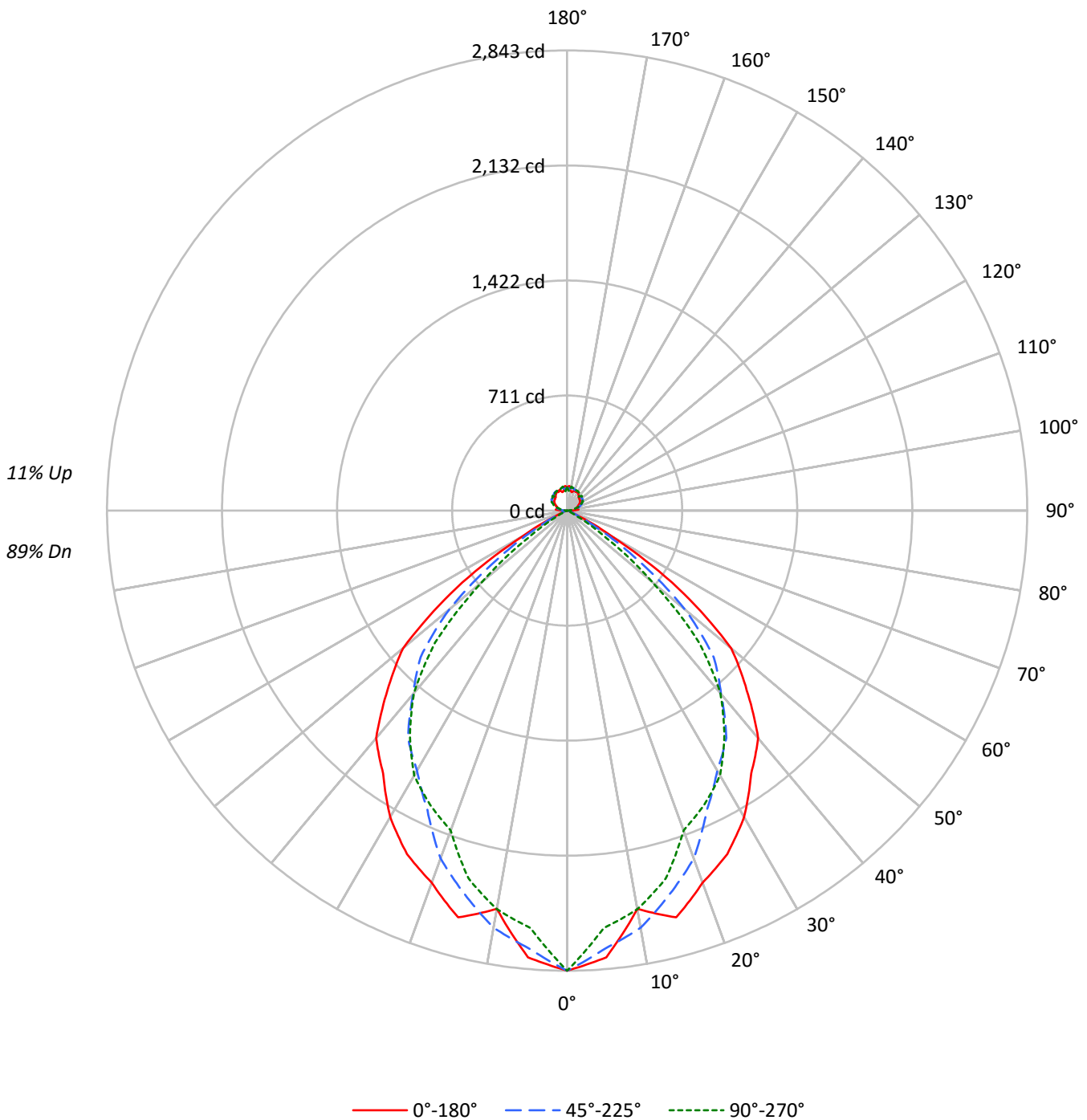
Lumens per Lamp: 4500 (3 lamps)
Luminaire Lumens: 5199.7 lumens
Efficiency: 38.5%
Efficacy: 29.4 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 0.99 / 1.15
Luminous Opening: Rectangular w/ Sides (W: 0.57' x L: 3.98' x H: 0.33')
CIE Type: Semi-Direct

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	45	45	45	45	43	43	43	43	40	40	40	38	38	38	35	35	35	34
1	42	41	39	38	41	39	38	37	37	36	35	35	34	34	33	32	32	31
2	39	37	35	33	38	36	34	32	34	32	31	32	31	30	30	29	28	27
3	36	33	31	29	35	32	30	28	31	29	27	29	28	26	28	26	25	24
4	34	30	27	25	33	29	27	25	28	26	24	27	25	23	25	24	23	22
5	31	27	24	22	30	27	24	22	25	23	21	24	22	21	23	22	20	19
6	29	25	22	20	28	24	22	20	23	21	19	22	20	19	21	20	18	17
7	27	23	20	18	26	22	20	18	21	19	17	20	18	17	20	18	17	16
8	25	21	18	16	25	21	18	16	20	17	16	19	17	15	18	16	15	14
9	24	19	17	15	23	19	16	15	18	16	14	18	15	14	17	15	14	13
10	22	18	15	13	22	18	15	13	17	15	13	16	14	13	16	14	13	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13372	13372	13372
5°	12990	12318	11642
10°	11762	11548	10843
15°	12395	10618	9931
20°	11888	9786	8703
25°	11697	8709	8202
30°	11331	7935	7700
35°	10758	7425	6928
40°	10535	6529	6092
45°	9636	5814	4870
50°	8815	4471	2976
55°	6142	2616	1331
60°	2611	1059	311
65°	621	303	88
70°	245	165	42
75°	157	119	18
80°	129	83	4
85°	149	56	19



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	253.9	4.9	1.9
10°-20°	689.9	13.3	5.1
20°-30°	973.4	18.7	7.2
30°-40°	1103.8	21.2	8.2
40°-50°	991.9	19.1	7.3
50°-60°	496.4	9.5	3.7
60°-70°	76.0	1.5	0.6
70°-80°	14.2	0.3	0.1
80°-90°	8.7	0.2	0.1
90°-100°	38.5	0.7	0.3
100°-110°	69.7	1.3	0.5
110°-120°	93.0	1.8	0.7
120°-130°	99.3	1.9	0.7
130°-140°	93.3	1.8	0.7
140°-150°	81.5	1.6	0.6
150°-160°	63.6	1.2	0.5
160°-170°	39.2	0.8	0.3
170°-180°	13.3	0.3	0.1
0°-30°	1917.2	36.9	14.2
0°-40°	3021.0	58.1	22.4
0°-60°	4509.2	86.7	33.4
0°-90°	4608.2	88.6	34.1
90°-120°	201.3	3.9	1.5
90°-150°	475.4	9.1	3.5
90°-180°	592.0	11.4	4.4
0°-180°	5199.7	100.0	38.5

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2843	2843	2843	2843	2843	
5°	2771	2694	2715	2603	2590	256
15°	2602	2549	2453	2365	2354	719
25°	2341	2250	2043	1962	2005	1075
35°	1983	1861	1715	1663	1693	1251
45°	1569	1406	1282	1200	1154	1215
55°	838	707	532	359	296	737
65°	66	64	54	28	18	115
75°	11	17	18	8	3	14
85°	5	7	7	4	3	6
90°	24	14	12	11	7	17
95°	70	51	30	28	22	44
105°	63	66	72	70	54	67
115°	79	90	102	104	94	77
125°	98	104	119	118	114	87
135°	106	117	123	128	128	82
145°	121	122	135	129	132	76
155°	126	135	137	145	137	60
165°	118	138	144	136	143	35
175°	153	144	131	136	120	13
180°	143	143	143	143	143	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2842.6	2842.6	2842.6	2842.6	2842.6
5°	2770.9	2694.2	2715.0	2602.8	2589.7
10°	2498.6	2646.6	2616.4	2562.4	2500.6
15°	2602.0	2549.1	2452.7	2365.3	2354.1
20°	2446.7	2414.5	2286.6	2147.2	2103.1
25°	2341.0	2249.9	2042.9	1961.7	2004.9
30°	2186.4	2057.6	1854.2	1843.3	1889.3
35°	1982.6	1861.1	1715.1	1662.9	1693.3
40°	1835.5	1637.0	1479.2	1491.1	1471.9
45°	1569.1	1406.4	1281.6	1199.7	1153.8
50°	1324.0	1116.0	950.5	767.5	686.0
55°	838.0	706.6	531.5	359.4	295.9
60°	317.5	276.4	203.4	106.3	66.0
65°	65.8	64.3	54.5	27.9	17.7
70°	21.9	28.4	27.3	14.4	7.9
75°	11.3	17.3	17.9	7.8	3.1
80°	7.0	11.3	11.2	4.4	0.7
85°	5.4	7.1	6.6	4.2	2.7
90°	24.0	14.3	12.3	10.7	7.4
95°	70.4	51.0	30.1	27.7	21.6
100°	59.8	59.1	48.0	46.7	38.0
105°	63.1	66.1	71.6	70.3	53.9
110°	66.1	76.0	84.8	83.4	85.7
115°	78.6	89.6	101.6	103.5	94.1
120°	88.5	95.1	106.0	118.0	112.4
125°	98.5	103.9	118.6	118.2	114.4
130°	101.7	109.9	116.3	122.1	119.5
135°	106.0	116.7	123.3	128.2	128.2
140°	109.9	126.9	129.2	133.5	112.7
145°	121.4	122.3	134.7	128.6	132.5
150°	131.5	144.5	136.5	138.2	135.4
155°	126.1	135.1	136.8	145.2	137.4
160°	136.6	130.9	136.2	145.0	134.8
165°	117.9	138.2	144.0	136.2	142.8
170°	123.6	141.2	142.3	147.6	150.4
175°	152.8	143.6	131.2	135.8	120.1
180°	142.7	142.7	142.7	142.7	142.7

(END OF REPORT)