

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: 89103

Luminaire Tested: **E2-SH-1T5-DL-5**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 89103
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: E2-SH-1T5-DL-5
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

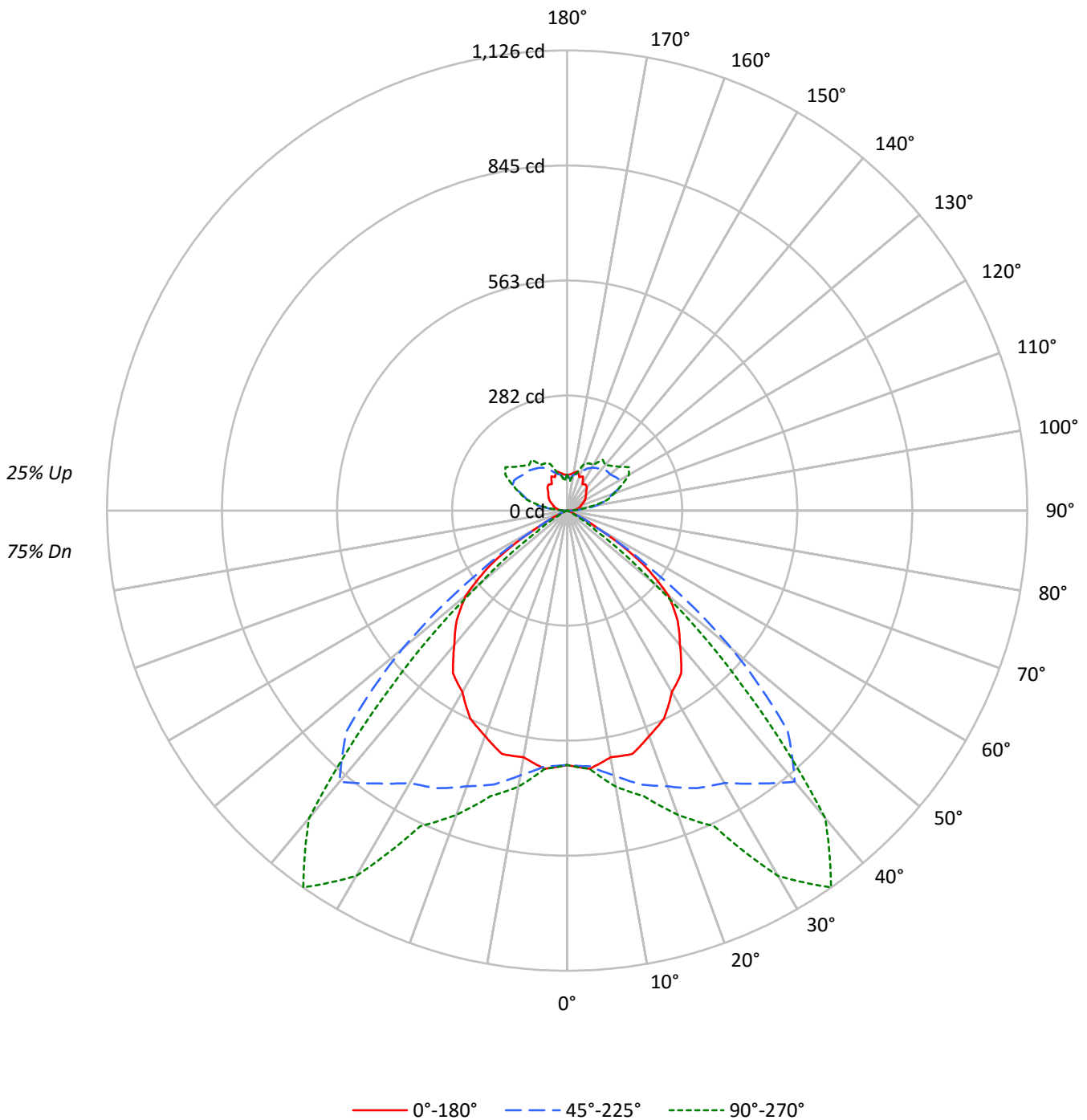
Lumens per Lamp: 4500 (1 lamp)
Luminaire Lumens: 2446.8 lumens
Efficiency: 54.4%
Efficacy: 41.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.84 / 1.63
Luminous Opening: Rectangular w/ Sides (W: 0.57' x L: 3.98' x H: 0.33')
CIE Type: Semi-Direct

Input Watts (W): 59
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	61	61	61	61	58	58	58	58	53	53	53	48	48	48	43	43	43	41
1	57	55	53	52	54	53	51	50	48	47	46	44	43	42	40	39	38	36
2	53	49	46	44	50	47	45	42	43	41	39	39	38	37	36	35	34	32
3	49	44	41	38	46	42	39	36	39	36	34	36	34	32	33	31	30	28
4	45	40	36	33	43	38	34	32	35	32	30	32	30	28	30	28	26	25
5	42	36	31	28	40	34	30	28	32	28	26	29	27	25	27	25	23	22
6	38	32	28	25	37	31	27	24	29	25	23	26	24	22	24	22	21	19
7	36	29	25	22	34	28	24	21	26	23	20	24	21	19	22	20	18	17
8	33	27	22	20	32	26	22	19	24	20	18	22	19	17	20	18	16	15
9	31	24	20	17	29	23	20	17	22	19	16	20	17	16	19	16	15	14
10	29	22	18	16	27	21	18	15	20	17	15	19	16	14	17	15	13	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2928	2928	2928
5°	2973	2850	2853
10°	2884	2902	2974
15°	2938	3003	3052
20°	2852	3073	3277
25°	2803	3196	3487
30°	2657	3293	4207
35°	2641	3528	4606
40°	2465	3823	4065
45°	2349	3464	2562
50°	2153	2473	1203
55°	1631	1276	403
60°	716	444	118
65°	199	129	37
70°	91	77	18
75°	67	54	7
80°	48	36	3
85°	55	29	9



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	60.9	2.5	1.4
10°-20°	192.8	7.9	4.3
20°-30°	342.7	14.0	7.6
30°-40°	504.3	20.6	11.2
40°-50°	475.5	19.4	10.6
50°-60°	208.8	8.5	4.6
60°-70°	31.5	1.3	0.7
70°-80°	6.1	0.3	0.1
80°-90°	4.3	0.2	0.1
90°-100°	36.3	1.5	0.8
100°-110°	90.2	3.7	2.0
110°-120°	117.2	4.8	2.6
120°-130°	119.8	4.9	2.7
130°-140°	96.7	4.0	2.1
140°-150°	73.9	3.0	1.6
150°-160°	50.4	2.1	1.1
160°-170°	26.9	1.1	0.6
170°-180°	8.4	0.3	0.2
0°-30°	596.4	24.4	13.3
0°-40°	1100.6	45.0	24.5
0°-60°	1785.0	73.0	39.7
0°-90°	1826.9	74.7	40.6
90°-120°	243.8	10.0	5.4
90°-150°	534.2	21.8	11.9
90°-180°	620.0	25.3	13.8
0°-180°	2446.8	100.0	54.4

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	622	622	622	622	622	
5°	634	625	628	648	635	60
15°	617	628	694	729	723	172
25°	561	640	750	849	852	256
35°	487	620	815	1039	1126	300
45°	382	578	764	690	607	293
55°	222	346	259	126	90	190
65°	21	29	23	13	7	34
75°	5	7	8	4	1	5
85°	2	3	3	3	1	2
90°	5	7	7	10	7	4
95°	19	36	33	34	27	15
105°	33	73	99	112	102	34
115°	43	92	148	144	146	42
125°	56	100	144	186	185	49
135°	66	101	137	150	155	51
145°	78	92	127	141	152	48
155°	92	95	113	129	128	40
165°	100	90	93	94	96	27
175°	89	90	77	97	72	9
180°	87	87	87	87	87	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	622.5	622.5	622.5	622.5	622.5
5°	634.1	624.6	628.1	647.8	634.7
10°	612.7	627.6	657.4	662.1	685.8
15°	616.7	627.9	693.7	728.8	723.4
20°	586.9	627.9	718.0	773.2	791.9
25°	561.1	639.7	749.6	849.0	852.3
30°	512.7	619.1	769.5	957.5	1032.1
35°	486.7	619.6	814.9	1039.4	1125.8
40°	429.4	604.2	866.1	986.0	982.1
45°	382.5	578.5	763.6	690.4	607.0
50°	323.4	493.0	525.7	353.9	277.2
55°	222.5	345.5	259.2	126.3	89.6
60°	87.1	139.1	85.4	37.3	25.1
65°	21.1	29.4	23.1	12.8	7.4
70°	8.1	11.3	12.7	6.7	3.3
75°	4.8	7.1	8.1	3.7	1.3
80°	2.6	4.4	4.9	2.0	0.5
85°	2.0	2.6	3.4	3.1	1.3
90°	5.2	6.8	6.8	9.7	6.9
95°	19.1	36.2	33.3	33.9	27.2
100°	25.7	59.0	73.4	75.5	61.1
105°	33.1	73.4	99.3	111.8	101.6
110°	35.5	89.9	117.9	124.9	122.2
115°	42.7	92.0	147.6	143.6	146.3
120°	49.4	91.2	149.1	172.7	174.6
125°	55.5	100.0	143.9	186.2	184.7
130°	60.0	98.1	137.6	162.3	166.5
135°	65.7	101.1	137.3	149.8	154.7
140°	75.0	96.2	131.2	150.3	145.3
145°	78.1	91.9	126.8	140.7	151.7
150°	74.7	86.5	121.1	133.6	129.2
155°	92.0	95.3	112.7	129.0	127.5
160°	87.2	91.9	100.9	103.7	121.7
165°	99.5	90.3	93.0	93.7	96.5
170°	93.4	92.5	88.9	88.4	88.0
175°	88.7	89.6	77.4	97.1	71.7
180°	87.3	87.3	87.3	87.3	87.3

(END OF REPORT)