

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: 89104

Luminaire Tested: **E2-SH-1T5-DL-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 89104
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: E2-SH-1T5-DL-4
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

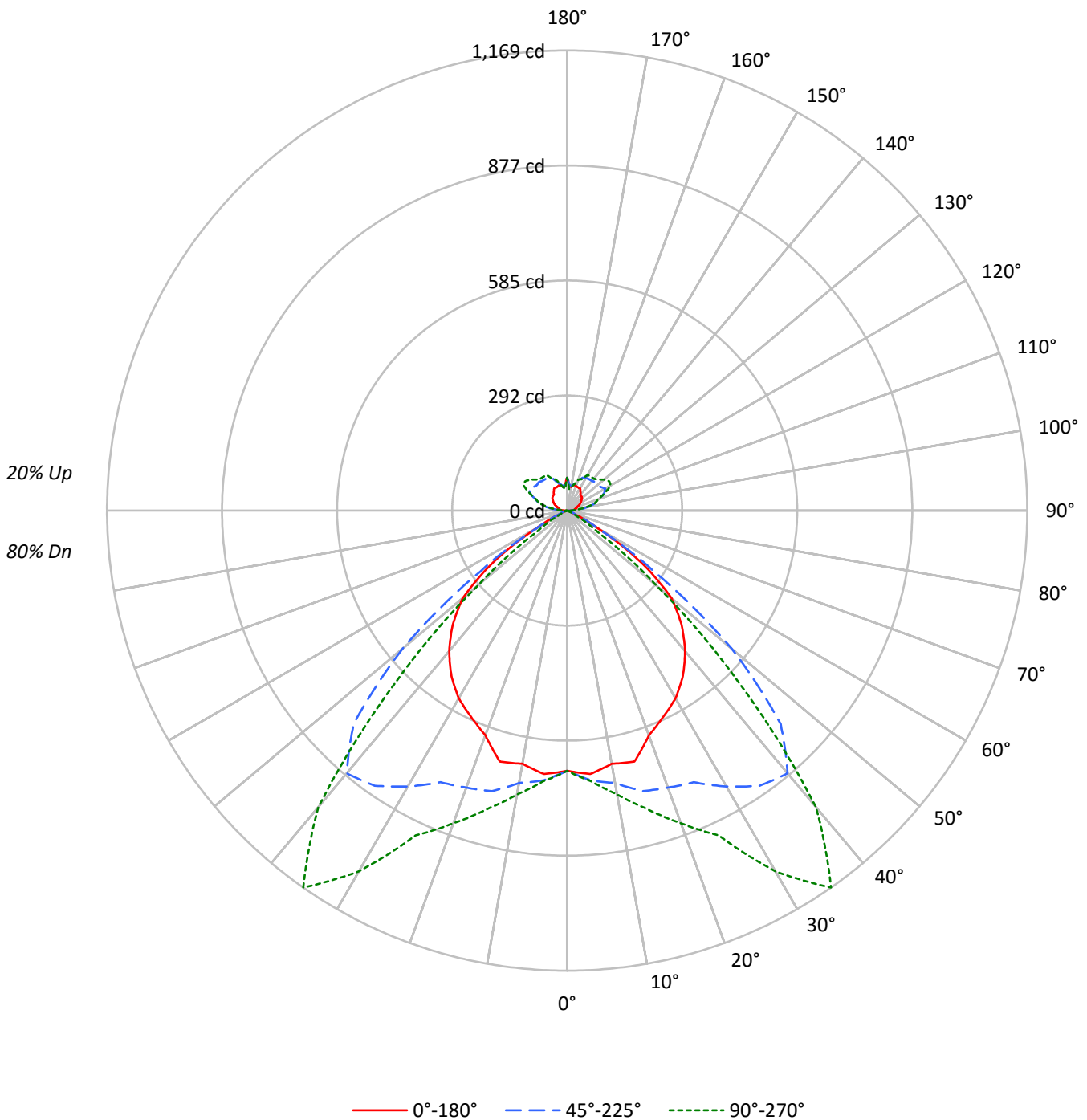
Lumens per Lamp: 4500 (1 lamp)
Luminaire Lumens: 2356.6 lumens
Efficiency: 52.4%
Efficacy: 39.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.82 / 1.62
Luminous Opening: Rectangular w/ Sides (W: 0.57' x L: 3.98' x H: 0.33')
CIE Type: Semi-Direct

Input Watts (W): 59
Input Voltage (V): NR
Input Current (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	60	60	60	60	57	57	57	57	52	52	52		48	48	48		44	44	44	42
1	56	54	52	51	53	52	50	49	48	47	46		44	43	42		41	40	39	38
2	52	48	46	43	50	47	44	42	43	41	39		40	38	37		37	36	35	33
3	48	43	40	37	46	42	39	36	39	36	34		36	34	32		34	32	31	29
4	44	39	35	32	42	38	34	31	35	32	30		33	30	28		30	29	27	26
5	41	35	31	28	39	34	30	27	32	29	26		30	27	25		28	26	24	23
6	38	32	28	25	36	31	27	24	29	26	23		27	24	22		25	23	21	20
7	35	29	25	22	34	28	24	21	26	23	21		25	22	20		23	21	19	18
8	33	26	22	19	31	25	22	19	24	21	18		22	20	18		21	19	17	16
9	30	24	20	17	29	23	20	17	22	19	16		21	18	16		19	17	15	14
10	28	22	18	16	27	21	18	15	20	17	15		19	16	14		18	16	14	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3109	3109	3109
5°	3149	3120	3101
10°	3074	3101	3174
15°	3144	3194	3311
20°	2951	3205	3498
25°	2887	3246	3724
30°	2854	3464	4313
35°	2782	3693	4783
40°	2674	3845	4071
45°	2525	3480	2583
50°	2306	2562	1281
55°	1687	1325	426
60°	743	466	124
65°	200	135	39
70°	96	77	15
75°	64	59	9
80°	50	40	4
85°	55	31	9



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	65.4	2.8	1.5
10°-20°	205.4	8.7	4.6
20°-30°	356.9	15.1	7.9
30°-40°	520.1	22.1	11.6
40°-50°	485.8	20.6	10.8
50°-60°	216.4	9.2	4.8
60°-70°	32.3	1.4	0.7
70°-80°	6.3	0.3	0.1
80°-90°	4.2	0.2	0.1
90°-100°	29.0	1.2	0.6
100°-110°	67.1	2.8	1.5
110°-120°	85.7	3.6	1.9
120°-130°	88.6	3.8	2.0
130°-140°	72.3	3.1	1.6
140°-150°	56.3	2.4	1.3
150°-160°	38.3	1.6	0.9
160°-170°	20.0	0.9	0.4
170°-180°	6.4	0.3	0.1
0°-30°	627.6	26.6	13.9
0°-40°	1147.8	48.7	25.5
0°-60°	1850.0	78.5	41.1
0°-90°	1892.7	80.3	42.1
90°-120°	181.8	7.7	4.0
90°-150°	399.1	16.9	8.9
90°-180°	464.0	19.7	10.3
0°-180°	2356.6	100.0	52.4

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	661	661	661	661	661	
5°	672	672	688	679	690	63
15°	660	673	738	768	785	182
25°	578	666	761	882	910	267
35°	513	638	853	1052	1169	320
45°	411	596	767	690	612	315
55°	230	355	269	132	95	199
65°	21	29	24	13	8	35
75°	5	7	9	4	2	5
85°	2	3	4	3	1	2
90°	5	6	7	8	6	4
95°	17	30	29	27	22	13
105°	24	58	74	84	73	25
115°	34	68	104	104	105	33
125°	44	73	104	136	130	40
135°	52	74	102	114	111	40
145°	59	71	98	108	105	37
155°	65	70	92	95	88	30
165°	69	68	70	74	69	19
175°	64	61	65	73	55	6
180°	83	83	83	83	83	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	661.0	661.0	661.0	661.0	661.0
5°	671.7	672.1	687.7	679.2	689.8
10°	653.1	663.3	702.5	742.9	732.1
15°	660.0	673.3	737.8	768.4	784.9
20°	607.3	664.0	748.8	820.7	845.4
25°	577.8	665.9	761.3	882.5	910.2
30°	550.6	656.1	809.4	972.8	1058.3
35°	512.6	638.5	853.1	1052.2	1168.9
40°	465.9	630.7	871.1	1009.8	983.6
45°	411.2	595.7	767.1	689.6	612.1
50°	346.3	512.3	544.7	359.4	295.2
55°	230.2	355.4	269.2	132.0	94.6
60°	90.4	139.0	89.5	40.4	26.3
65°	21.2	29.4	24.3	12.8	7.8
70°	8.6	11.6	12.8	6.6	2.9
75°	4.6	6.9	8.9	3.8	1.6
80°	2.7	4.6	5.4	2.0	0.6
85°	2.0	2.9	3.6	2.7	1.2
90°	5.4	6.1	6.8	7.5	5.5
95°	17.3	29.5	29.2	26.8	22.4
100°	19.9	45.3	54.1	56.2	48.5
105°	24.5	57.5	74.1	83.9	73.2
110°	26.2	63.8	85.8	92.6	83.9
115°	33.7	67.6	103.6	104.2	105.3
120°	39.6	70.5	111.9	130.8	127.7
125°	43.9	72.7	104.4	136.4	130.2
130°	49.1	73.0	100.3	123.2	122.4
135°	51.5	74.0	102.2	114.5	111.2
140°	52.5	76.1	98.2	113.3	105.5
145°	59.1	71.2	97.5	108.1	104.9
150°	65.9	70.8	95.5	98.5	104.4
155°	65.0	70.1	91.9	94.8	87.8
160°	66.1	65.6	77.4	85.5	84.1
165°	68.7	67.5	70.3	74.2	68.7
170°	60.7	67.5	63.2	67.4	60.8
175°	63.9	60.6	65.4	73.3	54.8
180°	83.4	83.4	83.4	83.4	83.4

(END OF REPORT)