

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: 89194

Luminaire Tested: **E2-SH-3T5-DL-1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 89194  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: E2-SH-3T5-DL-1  
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**

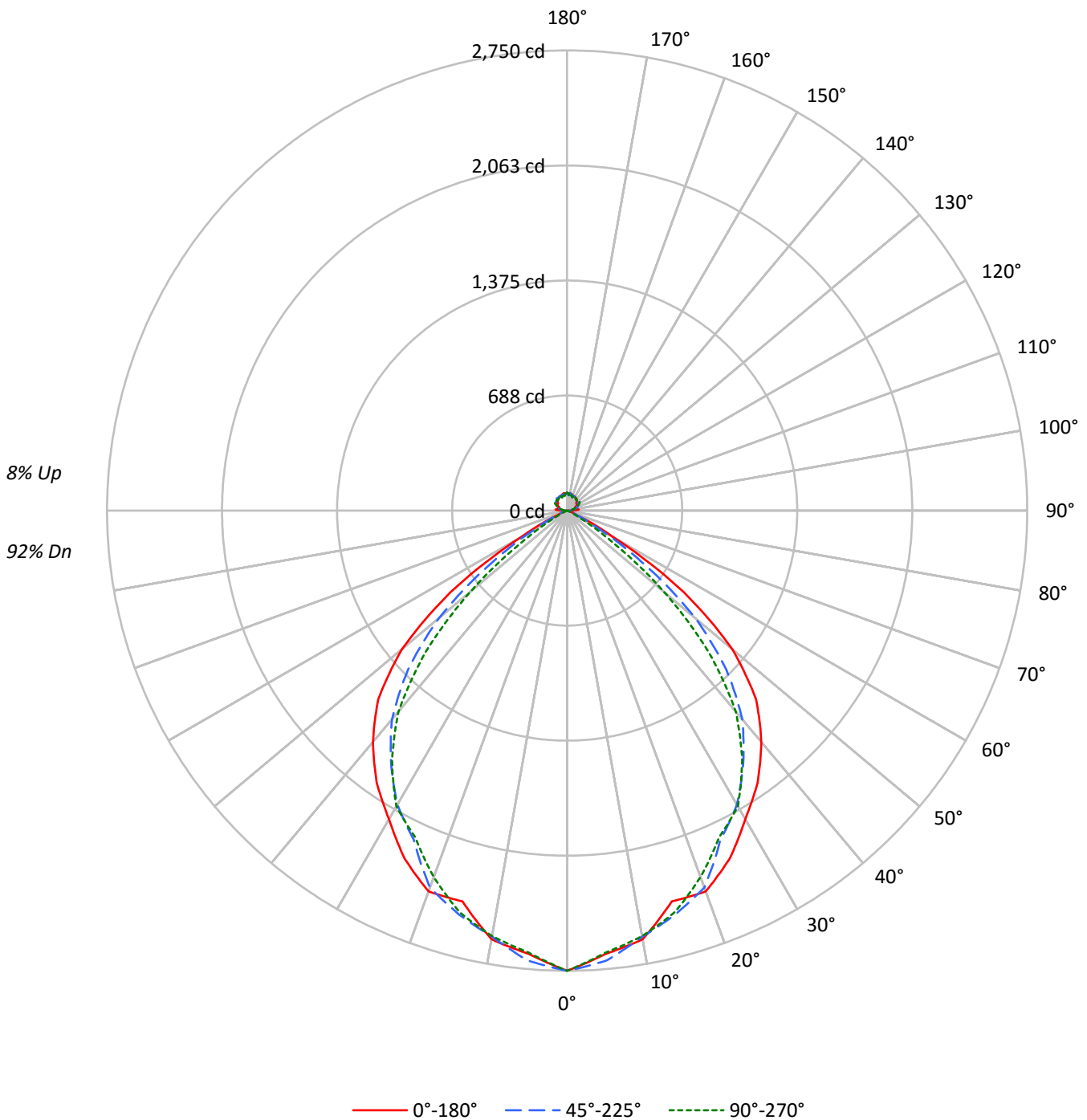
Lumens per Lamp: 4500 (3 lamps)  
Luminaire Lumens: 5260.1 lumens  
Efficiency: 39.0%  
Efficacy: 29.7 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.11 / 1.22  
Luminous Opening: Rectangular w/ Sides (W: 0.57' x L: 3.98' x H: 0.33')  
CIE Type: Direct

Input Watts (W): 177  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	46	46	46	46	44	44	44	44	41	41	41	39	39	39	37	37	37	36
1	43	41	40	39	41	40	39	38	38	37	36	36	35	35	34	34	33	32
2	40	37	35	34	39	36	35	33	35	33	32	33	32	31	31	30	30	29
3	37	34	31	29	36	33	31	29	31	30	28	30	28	27	29	27	26	25
4	34	31	28	26	33	30	27	25	29	26	25	27	26	24	26	25	23	23
5	32	28	25	23	31	27	25	23	26	24	22	25	23	22	24	22	21	20
6	30	25	22	20	29	25	22	20	24	22	20	23	21	19	22	20	19	18
7	28	23	20	18	27	23	20	18	22	20	18	21	19	17	20	19	17	16
8	26	21	18	16	25	21	18	16	20	18	16	20	17	16	19	17	16	15
9	24	20	17	15	24	19	17	15	19	16	15	18	16	14	18	16	14	14
10	23	18	16	14	22	18	15	14	17	15	13	17	15	13	16	14	13	12

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	12937	12937	12937
5°	12465	12247	11917
10°	12246	11411	11196
15°	11521	10814	10484
20°	11767	10260	9643
25°	11473	9247	8802
30°	11034	8684	8317
35°	10768	7945	7462
40°	10361	7185	6493
45°	9805	6102	5049
50°	8579	4702	3269
55°	6227	2811	1485
60°	2636	1138	351
65°	607	336	99
70°	270	170	46
75°	155	123	21
80°	140	88	7
85°	158	55	14



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	253.2	4.8	1.9
10°-20°	703.2	13.4	5.2
20°-30°	1019.6	19.4	7.6
30°-40°	1170.8	22.3	8.7
40°-50°	1042.3	19.8	7.7
50°-60°	528.4	10.0	3.9
60°-70°	81.4	1.5	0.6
70°-80°	14.8	0.3	0.1
80°-90°	9.0	0.2	0.1
90°-100°	36.7	0.7	0.3
100°-110°	55.7	1.1	0.4
110°-120°	67.8	1.3	0.5
120°-130°	71.7	1.4	0.5
130°-140°	66.1	1.3	0.5
140°-150°	58.4	1.1	0.4
150°-160°	44.4	0.8	0.3
160°-170°	27.1	0.5	0.2
170°-180°	9.5	0.2	0.1
0°-30°	1976.0	37.6	14.6
0°-40°	3146.8	59.8	23.3
0°-60°	4717.5	89.7	34.9
0°-90°	4822.7	91.7	35.7
90°-120°	160.2	3.0	1.2
90°-150°	356.4	6.8	2.6
90°-180°	437.0	8.3	3.2
0°-180°	5260.1	100.0	39.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2750	2750	2750	2750	2750	
5°	2659	2620	2699	2667	2651	253
15°	2418	2514	2498	2466	2485	697
25°	2296	2258	2169	2104	2152	1055
35°	1984	1949	1835	1815	1824	1238
45°	1597	1499	1345	1257	1196	1213
55°	850	762	571	397	330	735
65°	64	68	60	31	20	116
75°	11	17	18	8	4	14
85°	6	6	6	4	2	7
90°	29	19	13	10	6	18
95°	70	56	29	22	15	43
105°	51	64	51	50	43	55
115°	56	62	73	73	69	58
125°	69	70	79	88	92	63
135°	82	81	86	88	85	63
145°	88	97	93	96	88	56
155°	95	95	94	103	93	44
165°	101	92	92	96	98	29
175°	101	100	91	103	103	10
180°	107	107	107	107	107	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2750.1	2750.1	2750.1	2750.1	2750.1
5°	2659.0	2619.8	2699.3	2667.1	2651.0
10°	2601.3	2642.6	2585.4	2623.3	2582.1
15°	2418.4	2514.5	2498.1	2466.0	2485.1
20°	2421.8	2432.5	2397.5	2329.9	2330.3
25°	2296.3	2257.8	2169.0	2104.2	2151.6
30°	2129.0	2150.3	2029.1	2048.8	2040.7
35°	1984.4	1948.9	1835.2	1815.0	1823.8
40°	1805.2	1733.1	1628.0	1558.5	1568.6
45°	1596.6	1498.9	1345.0	1257.3	1196.4
50°	1288.6	1197.7	999.5	826.2	753.5
55°	849.6	761.9	571.1	397.4	330.0
60°	320.6	298.7	218.7	121.3	74.5
65°	64.3	67.5	60.3	31.2	19.8
70°	24.1	29.3	28.2	15.4	8.7
75°	11.2	17.2	18.5	8.2	3.6
80°	7.6	11.3	11.8	4.6	1.1
85°	5.7	6.5	6.5	3.8	2.0
90°	28.7	18.7	13.1	9.5	5.9
95°	70.5	55.6	29.4	22.5	15.1
100°	56.3	62.1	38.4	35.9	30.6
105°	50.8	64.4	51.2	49.5	43.4
110°	50.1	56.9	66.5	60.5	60.9
115°	56.0	62.5	72.6	72.7	69.3
120°	72.6	71.5	79.7	84.4	83.1
125°	69.0	70.3	78.9	88.4	92.0
130°	70.5	76.6	86.4	87.6	86.1
135°	82.2	81.4	86.2	87.7	85.4
140°	90.5	88.9	95.9	87.6	82.9
145°	87.6	97.2	92.8	95.7	88.5
150°	93.4	88.1	95.6	101.5	100.8
155°	95.2	95.4	93.8	103.3	93.4
160°	97.0	96.8	97.7	93.2	83.7
165°	101.3	92.0	92.0	96.1	98.0
170°	106.0	90.6	108.1	98.3	87.3
175°	101.0	100.1	91.4	102.8	102.8
180°	106.6	106.6	106.6	106.6	106.6

(END OF REPORT)