

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: 89115

Luminaire Tested: **E2-SH-2T5-DL-1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 89115
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: E2-SH-2T5-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

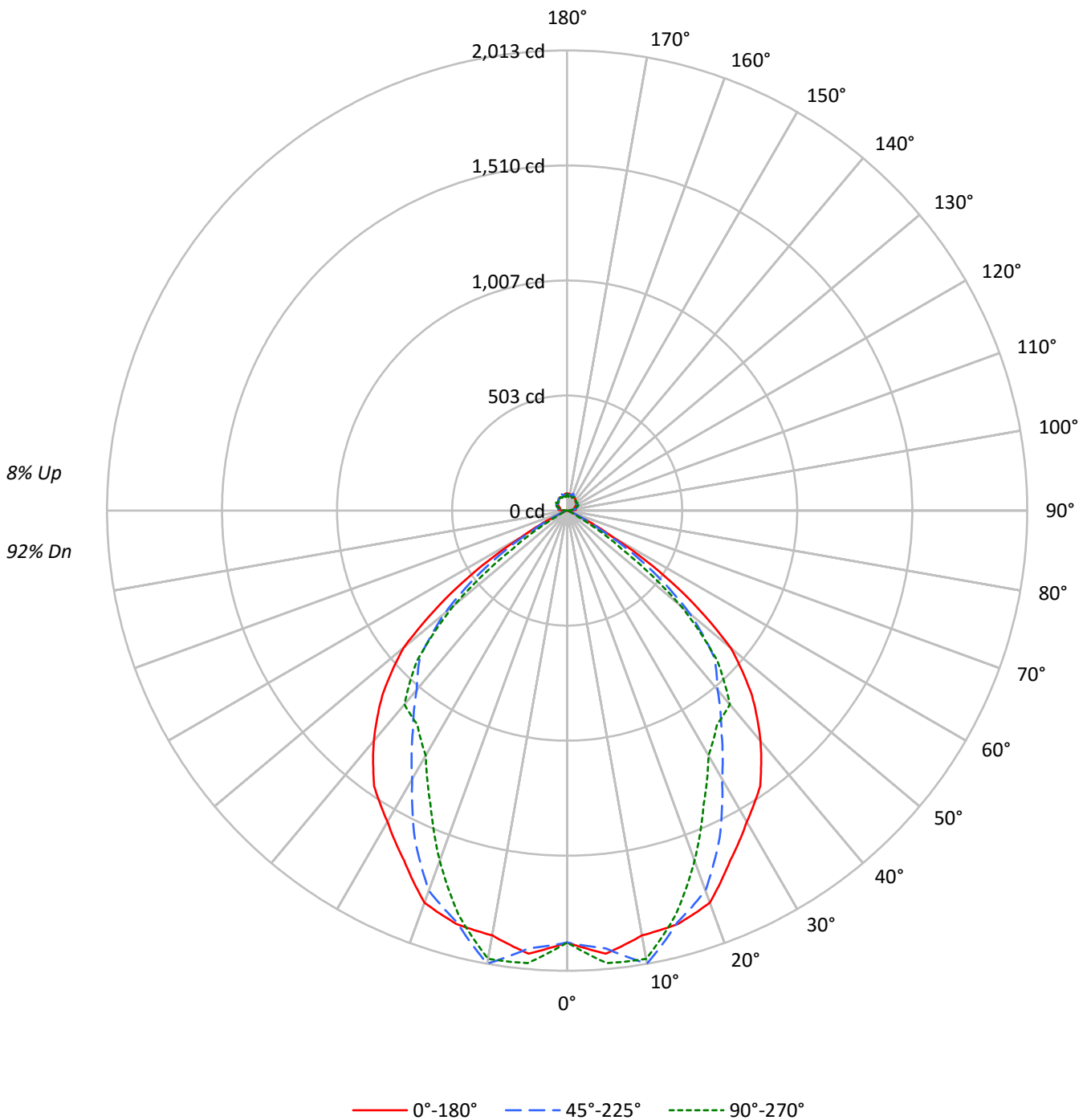
Lumens per Lamp: 4500 (2 lamps)
Luminaire Lumens: 3725.0 lumens
Efficiency: 41.4%
Efficacy: 31.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.02 / 1.18
Luminous Opening: Rectangular w/ Sides (W: 0.57' x L: 3.98' x H: 0.33')
CIE Type: Direct

Input Watts (W): 118
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										
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	50	30	10	50	30	10	0														
RCR																																						
0	48	48	48	48	47	47	47	47	44	44	44	42	42	42	39	39	39	38	38	38	37	36	36	35	34													
1	45	44	43	42	44	43	42	41	40	40	39	38	38	37	36	36	35	34	34	33	33	32	32	31	31													
2	42	40	38	36	41	39	37	35	37	35	34	35	34	33	33	32	32	31	31	30	32	30	29	31	29	28												
3	39	36	33	31	38	35	33	31	33	31	30	32	30	29	31	29	28	27	27	26	29	27	26	28	26	25												
4	37	33	30	27	35	32	29	27	30	28	26	29	27	26	28	26	25	24	24	23	27	25	23	26	24	22												
5	34	30	27	24	33	29	26	24	28	25	23	27	25	23	26	24	22	22	21	25	22	21	24	22	20	19												
6	32	27	24	22	31	27	24	21	25	23	21	25	22	21	24	22	20	19	19	23	20	19	22	20	18	18												
7	30	25	22	19	29	24	21	19	23	21	19	23	20	19	22	20	18	17	17	22	19	17	20	18	17	16												
8	28	23	20	18	27	22	20	17	22	19	17	21	19	17	20	18	17	16	16	22	19	17	20	18	17	16												
9	26	21	18	16	25	21	18	16	20	17	16	19	17	15	19	17	15	15	15	20	17	15	19	17	15	15												
10	24	20	17	15	24	19	16	15	19	16	14	18	16	14	17	15	14	13	13	18	16	14	17	15	14	13												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8888	8888	8888
5°	9122	8720	8934
10°	8883	8884	8636
15°	8921	8072	7731
20°	8869	7571	6744
25°	8436	6730	5788
30°	8148	5804	5043
35°	7989	5093	4676
40°	7556	4521	4584
45°	7022	4135	3921
50°	6220	3290	2816
55°	4351	2153	1301
60°	1858	919	301
65°	423	263	72
70°	169	133	32
75°	128	90	15
80°	90	63	6
85°	111	39	9



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	187.2	5.0	2.1
10°-20°	525.4	14.1	5.8
20°-30°	720.5	19.3	8.0
30°-40°	787.0	21.1	8.7
40°-50°	737.1	19.8	8.2
50°-60°	389.0	10.4	4.3
60°-70°	59.5	1.6	0.7
70°-80°	10.9	0.3	0.1
80°-90°	6.3	0.2	0.1
90°-100°	26.6	0.7	0.3
100°-110°	39.6	1.1	0.4
110°-120°	47.4	1.3	0.5
120°-130°	47.8	1.3	0.5
130°-140°	43.9	1.2	0.5
140°-150°	39.7	1.1	0.4
150°-160°	31.0	0.8	0.3
160°-170°	19.4	0.5	0.2
170°-180°	6.6	0.2	0.1
0°-30°	1433.0	38.5	15.9
0°-40°	2220.0	59.6	24.7
0°-60°	3346.1	89.8	37.2
0°-90°	3422.8	91.9	38.0
90°-120°	113.6	3.1	1.3
90°-150°	245.0	6.6	2.7
90°-180°	302.0	8.1	3.4
0°-180°	3725.0	100.0	41.4

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1889	1889	1889	1889	1889	
5°	1946	1891	1922	2091	1987	183
15°	1873	1889	1864	1868	1833	528
25°	1688	1710	1578	1403	1415	781
35°	1472	1392	1177	1133	1143	914
45°	1143	1027	912	930	929	875
55°	594	486	437	344	289	522
65°	45	45	47	26	14	81
75°	9	13	14	7	3	10
85°	4	4	5	3	1	4
90°	15	14	10	7	4	10
95°	39	41	25	16	13	25
105°	31	41	40	36	33	34
115°	40	43	53	53	54	39
125°	52	50	51	58	60	45
135°	51	58	54	60	57	42
145°	62	64	66	67	60	39
155°	62	69	66	67	65	29
165°	66	66	68	68	69	19
175°	74	75	63	71	60	7
180°	74	74	74	74	74	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1889.4	1889.4	1889.4	1889.4	1889.4
5°	1945.8	1890.7	1922.0	2090.7	1987.4
10°	1887.0	1986.8	2012.9	1962.9	1991.6
15°	1872.6	1888.9	1864.5	1868.3	1832.7
20°	1825.3	1834.1	1769.2	1627.4	1629.8
25°	1688.5	1709.6	1578.5	1403.2	1414.9
30°	1572.2	1587.0	1356.2	1241.5	1237.2
35°	1472.2	1392.3	1176.6	1132.6	1142.9
40°	1316.5	1189.3	1024.4	1078.9	1107.4
45°	1143.4	1027.0	911.5	930.3	929.0
50°	934.2	786.6	699.4	703.1	649.1
55°	593.6	486.3	437.4	343.9	289.2
60°	226.0	189.3	176.6	99.9	63.9
65°	44.8	44.9	47.2	25.9	14.4
70°	15.1	19.8	22.0	11.9	6.1
75°	9.2	12.7	13.5	6.8	2.6
80°	4.9	8.0	8.5	3.5	0.9
85°	4.0	4.4	4.6	2.6	1.2
90°	15.1	14.5	10.3	7.0	4.5
95°	38.9	41.1	25.1	16.4	12.9
100°	34.3	42.8	33.3	26.5	25.0
105°	30.6	40.8	40.4	36.1	32.8
110°	32.5	40.0	46.8	45.8	41.0
115°	39.6	43.4	52.6	52.8	53.9
120°	44.9	46.8	53.4	55.7	51.9
125°	51.5	49.5	50.9	58.3	60.1
130°	54.4	53.3	50.2	62.2	51.9
135°	51.4	58.2	54.4	59.5	56.8
140°	58.3	61.3	57.3	60.6	56.3
145°	61.8	63.5	66.0	67.1	59.9
150°	65.8	64.8	70.3	62.7	63.0
155°	62.2	69.0	66.2	66.7	65.0
160°	62.2	69.3	78.5	71.2	60.3
165°	65.5	66.4	68.5	68.4	68.7
170°	71.5	69.3	68.6	70.8	61.8
175°	74.2	74.8	63.2	70.9	59.6
180°	74.3	74.3	74.3	74.3	74.3

(END OF REPORT)