

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: 89100

Luminaire Tested: **E2-SH-1T5-DL-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 89100
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: E2-SH-1T5-DL-8
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

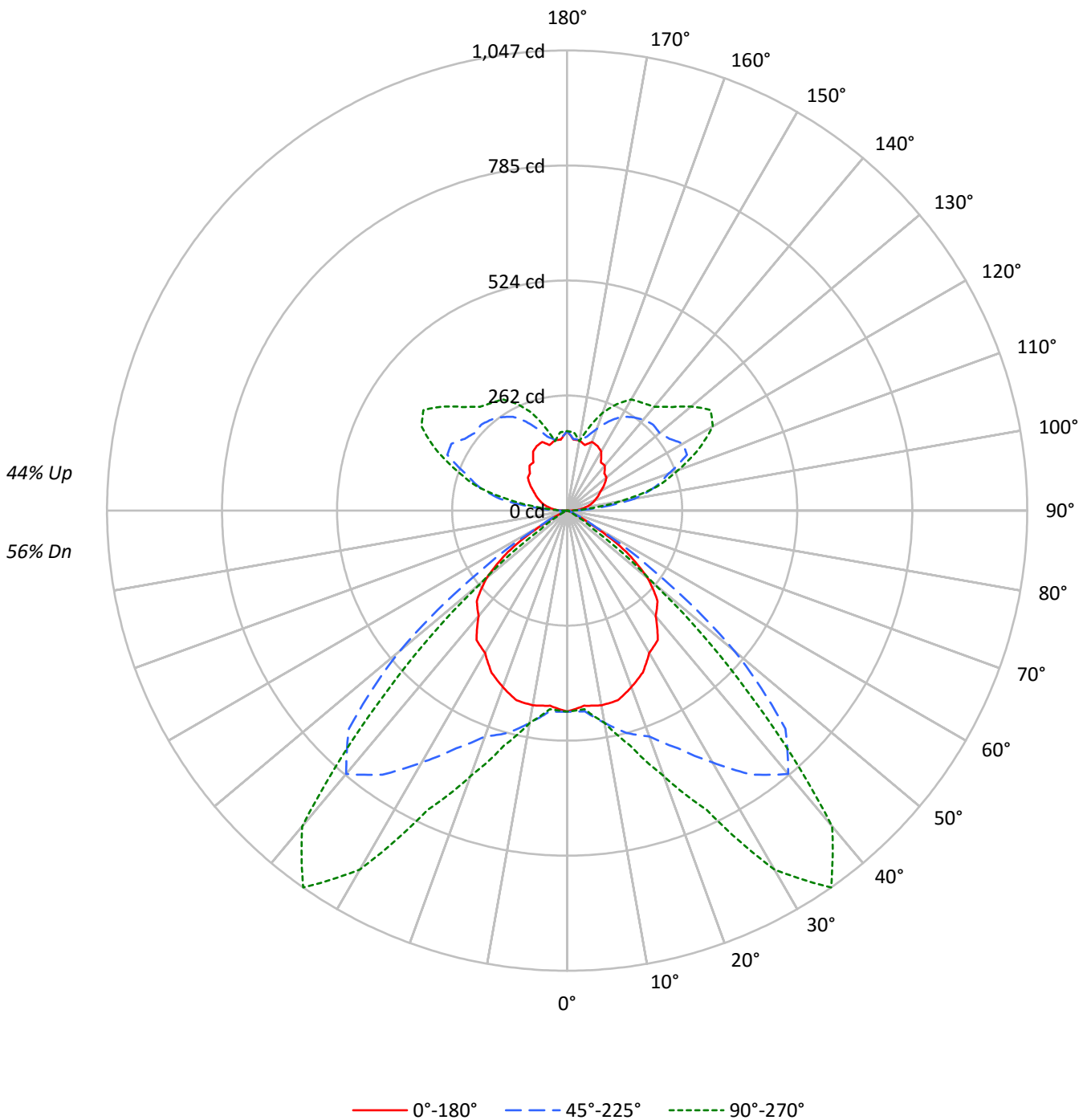
Lumens per Lamp: 4500 (1 lamp)
Luminaire Lumens: 2817.2 lumens
Efficiency: 62.6%
Efficacy: 47.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.95 / 1.72
Luminous Opening: Rectangular w/ Sides (W: 0.57' x L: 3.98' x H: 0.33')
CIE Type: General Diffuse

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	68	68	68	68	63	63	63	63	54	54	54	46	46	46	38	38	38	35
1	63	60	58	56	58	56	55	53	49	47	46	42	41	40	35	35	34	31
2	58	54	50	47	54	50	47	45	44	41	40	38	36	35	32	31	30	27
3	53	48	44	40	49	45	41	38	39	36	34	34	32	30	29	27	26	24
4	49	43	38	34	45	40	36	33	35	32	29	30	28	26	26	24	23	21
5	45	38	33	30	42	36	32	28	31	28	26	27	25	23	24	22	20	18
6	41	34	29	26	39	32	28	25	28	25	22	25	22	20	21	19	18	16
7	38	31	26	23	36	29	25	22	26	22	20	22	20	18	19	17	16	14
8	36	28	23	20	33	26	22	19	23	20	17	20	18	16	18	16	14	13
9	33	25	21	18	31	24	20	17	21	18	16	19	16	14	16	14	13	11
10	31	23	19	16	29	22	18	15	20	16	14	17	15	13	15	13	11	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2152	2152	2152
5°	2089	2081	2039
10°	2117	2164	2127
15°	2128	2268	2335
20°	2076	2340	2661
25°	2033	2544	3074
30°	1936	2832	3842
35°	1951	3174	4283
40°	1799	3452	3884
45°	1786	3186	2434
50°	1595	2340	1100
55°	1204	1210	324
60°	544	397	99
65°	156	116	34
70°	74	65	15
75°	53	49	7
80°	44	33	4
85°	47	32	10



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	44.7	1.6	1.0
10°-20°	146.6	5.2	3.3
20°-30°	278.4	9.9	6.2
30°-40°	444.1	15.8	9.9
40°-50°	427.7	15.2	9.5
50°-60°	185.6	6.6	4.1
60°-70°	27.6	1.0	0.6
70°-80°	5.4	0.2	0.1
80°-90°	4.9	0.2	0.1
90°-100°	68.1	2.4	1.5
100°-110°	184.6	6.6	4.1
110°-120°	243.0	8.6	5.4
120°-130°	243.4	8.6	5.4
130°-140°	194.9	6.9	4.3
140°-150°	150.1	5.3	3.3
150°-160°	101.3	3.6	2.3
160°-170°	51.0	1.8	1.1
170°-180°	15.7	0.6	0.3
0°-30°	469.7	16.7	10.4
0°-40°	913.8	32.4	20.3
0°-60°	1527.1	54.2	33.9
0°-90°	1565.0	55.6	34.8
90°-120°	495.7	17.6	11.0
90°-150°	1084.1	38.5	24.1
90°-180°	1252.0	44.4	27.8
0°-180°	2817.2	100.0	62.6

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	457	457	457	457	457	
5°	446	458	459	479	454	43
15°	447	466	524	565	553	125
25°	407	473	597	720	752	186
35°	360	489	733	971	1047	220
45°	291	496	702	640	577	219
55°	164	316	246	106	72	141
65°	16	26	21	11	7	26
75°	4	6	7	3	1	4
85°	2	2	4	3	1	2
90°	5	7	9	16	7	6
95°	30	64	65	64	42	24
105°	56	152	208	229	212	58
115°	78	189	301	297	330	77
125°	103	194	284	373	399	92
135°	120	194	276	300	333	95
145°	134	183	259	294	299	87
155°	162	188	224	262	267	75
165°	154	168	174	186	197	45
175°	162	157	163	153	179	16
180°	181	181	181	181	181	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	457.4	457.4	457.4	457.4	457.4
5°	445.7	458.0	458.6	479.0	453.6
10°	449.8	463.6	490.3	505.3	490.5
15°	446.7	466.4	523.9	564.7	553.4
20°	427.3	474.1	546.8	636.4	643.0
25°	406.8	473.1	596.7	719.9	751.5
30°	373.6	484.5	661.7	846.1	942.7
35°	359.5	488.6	733.3	970.6	1046.8
40°	313.5	504.8	782.2	942.6	938.3
45°	290.8	496.5	702.2	639.5	576.8
50°	239.5	434.9	497.4	317.9	253.5
55°	164.3	316.0	245.8	106.1	72.0
60°	66.2	128.1	76.3	30.5	21.0
65°	16.5	26.3	20.9	11.4	6.8
70°	6.6	9.9	10.7	6.0	2.8
75°	3.8	6.0	7.4	3.2	1.3
80°	2.4	3.9	4.5	1.7	0.6
85°	1.7	2.5	3.8	3.4	1.4
90°	5.1	7.4	8.6	15.9	7.3
95°	29.6	64.0	65.0	64.2	41.6
100°	42.5	113.7	155.3	152.3	124.9
105°	56.0	151.9	207.5	228.8	212.4
110°	66.3	179.9	245.5	253.5	268.2
115°	77.5	188.8	300.6	297.0	330.1
120°	88.4	190.6	304.0	365.8	382.4
125°	103.4	193.7	284.5	372.9	398.9
130°	116.7	188.2	274.5	332.8	368.3
135°	119.7	193.5	276.5	299.6	332.9
140°	133.6	184.6	269.6	319.4	308.1
145°	133.7	183.0	259.3	293.7	299.0
150°	155.2	178.3	246.3	271.3	292.0
155°	162.4	187.9	223.7	262.4	266.8
160°	166.0	176.2	197.6	217.4	236.8
165°	154.2	168.3	174.0	185.7	197.2
170°	162.0	163.7	163.9	171.1	160.0
175°	162.2	157.3	163.2	152.9	178.7
180°	180.6	180.6	180.6	180.6	180.6

(END OF REPORT)