

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: 89107

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 89107
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: E2-SH-1T5-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

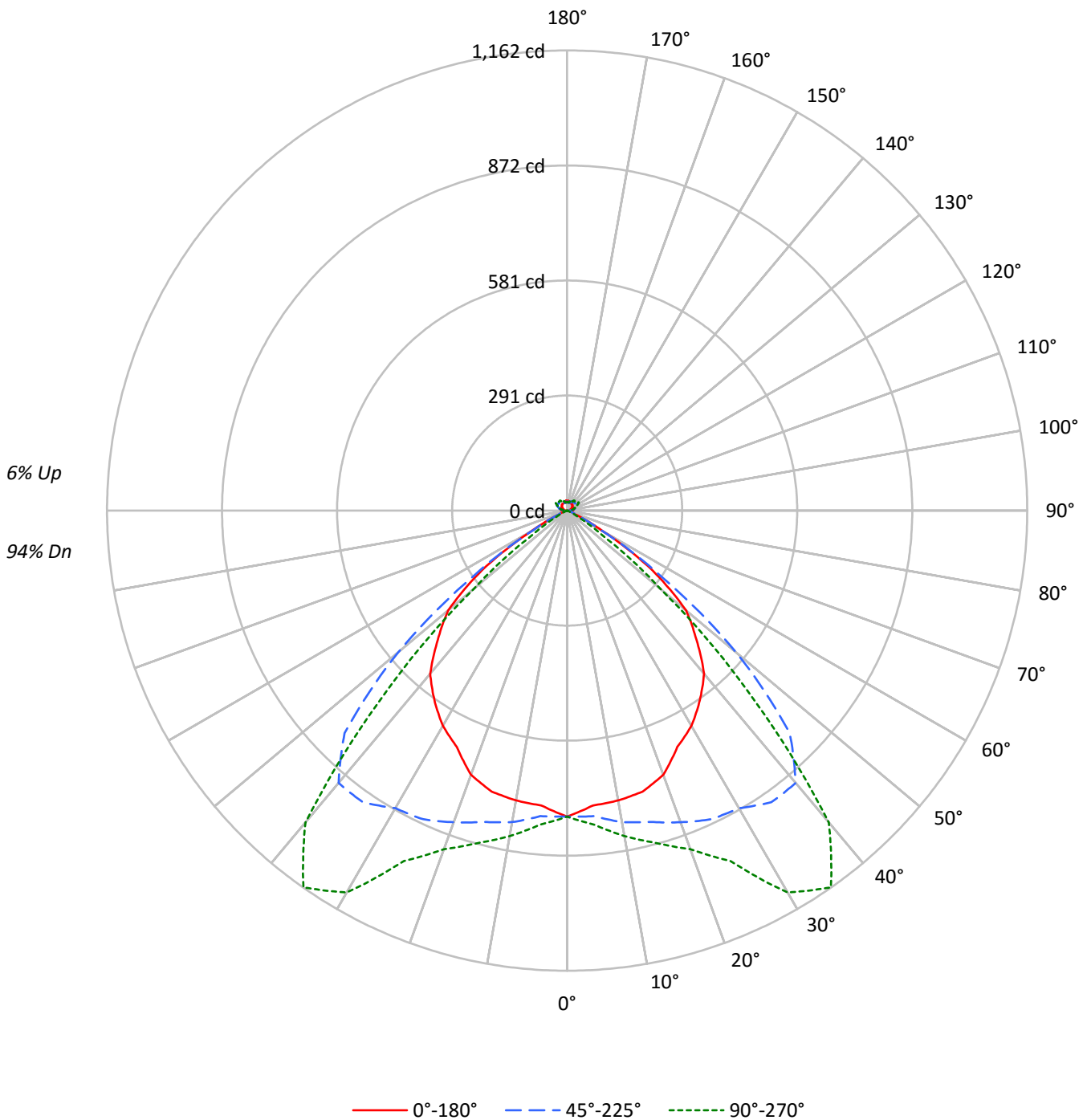
Lumens per Lamp: 4500 (1 lamp)
Luminaire Lumens: 2171.6 lumens
Efficiency: 48.3%
Efficacy: 36.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.77 / 1.57
Luminous Opening: Rectangular w/ Sides (W: 0.57' x L: 3.98' x H: 0.33')
CIE Type: Direct

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	57	57	57	57	55	55	55	55	52	52	52	49	49	49	46	46	46	45
1	53	51	50	48	52	50	49	47	48	46	45	45	44	43	43	42	42	41
2	49	46	44	42	48	45	43	41	43	41	39	41	39	38	39	38	37	36
3	46	42	38	36	44	41	38	35	39	36	34	37	35	33	36	34	33	32
4	42	37	34	31	41	37	33	31	35	32	30	34	31	29	32	30	29	28
5	39	34	30	27	38	33	30	27	32	29	27	31	28	26	29	27	25	25
6	36	31	27	24	35	30	27	24	29	26	24	28	25	23	27	25	23	22
7	34	28	24	21	33	27	24	21	26	23	21	25	23	21	25	22	20	19
8	31	25	22	19	31	25	22	19	24	21	19	23	21	19	23	20	18	17
9	29	23	20	17	28	23	20	17	22	19	17	22	19	17	21	18	16	16
10	27	22	18	16	27	21	18	16	20	17	15	20	17	15	19	17	15	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3635	3635	3635
5°	3504	3514	3580
10°	3498	3526	3620
15°	3500	3523	3666
20°	3450	3585	3764
25°	3291	3667	3993
30°	3253	3713	4539
35°	3171	3893	4753
40°	3088	3963	4255
45°	2836	3606	2720
50°	2611	2625	1335
55°	1924	1420	475
60°	838	500	137
65°	213	137	42
70°	99	81	19
75°	71	57	9
80°	57	42	4
85°	58	25	4



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	74.8	3.4	1.7
10°-20°	229.4	10.6	5.1
20°-30°	391.9	18.0	8.7
30°-40°	551.5	25.4	12.3
40°-50°	511.8	23.6	11.4
50°-60°	230.6	10.6	5.1
60°-70°	34.7	1.6	0.8
70°-80°	6.6	0.3	0.1
80°-90°	3.4	0.2	0.1
90°-100°	12.3	0.6	0.3
100°-110°	19.9	0.9	0.4
110°-120°	23.4	1.1	0.5
120°-130°	24.6	1.1	0.5
130°-140°	20.5	0.9	0.5
140°-150°	16.4	0.8	0.4
150°-160°	11.4	0.5	0.3
160°-170°	6.3	0.3	0.1
170°-180°	2.1	0.1	0.0
0°-30°	696.1	32.1	15.5
0°-40°	1247.6	57.4	27.7
0°-60°	1989.9	91.6	44.2
0°-90°	2034.7	93.7	45.2
90°-120°	55.6	2.6	1.2
90°-150°	117.2	5.4	2.6
90°-180°	137.0	6.3	3.0
0°-180°	2171.6	100.0	48.3

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	773	773	773	773	773	
5°	747	759	774	817	796	71
15°	735	752	814	866	869	207
25°	659	746	860	947	976	306
35°	584	710	899	1105	1162	366
45°	462	648	795	718	644	358
55°	262	371	288	142	106	227
65°	23	32	25	14	8	38
75°	5	8	9	4	2	6
85°	2	3	3	2	1	2
90°	6	6	4	3	2	4
95°	16	18	12	7	7	10
105°	11	20	21	22	18	12
115°	12	18	29	29	26	12
125°	15	21	29	35	36	14
135°	19	23	26	30	30	15
145°	21	24	29	29	31	13
155°	21	22	25	28	28	10
165°	20	22	19	24	22	6
175°	25	23	23	21	20	2
180°	21	21	21	21	21	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	772.8	772.8	772.8	772.8	772.8
5°	747.4	759.0	774.5	816.9	796.4
10°	743.1	755.9	798.8	816.5	834.8
15°	734.8	752.0	813.8	866.5	868.9
20°	710.0	753.3	837.6	896.0	909.7
25°	658.6	745.5	860.1	946.6	976.1
30°	627.7	730.4	867.7	1024.6	1113.6
35°	584.4	709.6	899.2	1104.7	1161.6
40°	538.0	687.7	897.8	1018.1	1028.0
45°	461.8	647.5	794.8	717.6	644.4
50°	392.2	546.9	558.0	374.9	307.6
55°	262.5	370.9	288.5	142.5	105.6
60°	101.9	150.2	96.0	43.6	29.1
65°	22.6	31.7	24.6	13.8	8.5
70°	8.8	12.7	13.4	7.1	3.6
75°	5.1	7.5	8.6	3.9	1.5
80°	3.1	5.0	5.7	1.9	0.6
85°	2.1	2.9	2.9	1.6	0.6
90°	6.2	6.1	4.1	3.2	2.1
95°	15.8	18.2	11.5	7.1	7.4
100°	13.9	22.2	16.2	14.2	13.3
105°	10.8	20.0	21.4	21.7	18.0
110°	9.4	18.9	22.4	23.5	21.5
115°	11.5	18.5	28.9	28.9	26.0
120°	16.7	21.9	29.0	33.0	30.4
125°	15.0	21.2	28.9	35.2	35.9
130°	17.9	22.4	27.8	34.8	32.9
135°	19.4	22.9	26.3	30.0	30.5
140°	18.9	21.5	27.6	30.9	30.0
145°	21.3	23.7	29.0	29.2	31.2
150°	20.3	22.3	23.6	27.6	26.1
155°	20.9	21.8	25.4	27.8	27.9
160°	22.2	23.5	23.0	26.3	27.3
165°	19.7	22.0	19.4	24.3	22.5
170°	23.5	22.3	21.3	19.3	21.2
175°	25.2	23.4	23.0	21.3	20.3
180°	21.1	21.1	21.1	21.1	21.1

(END OF REPORT)