

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: 89101

Luminaire Tested: **E2-SH-1T5-DL-7**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 89101
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: E2-SH-1T5-DL-7
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

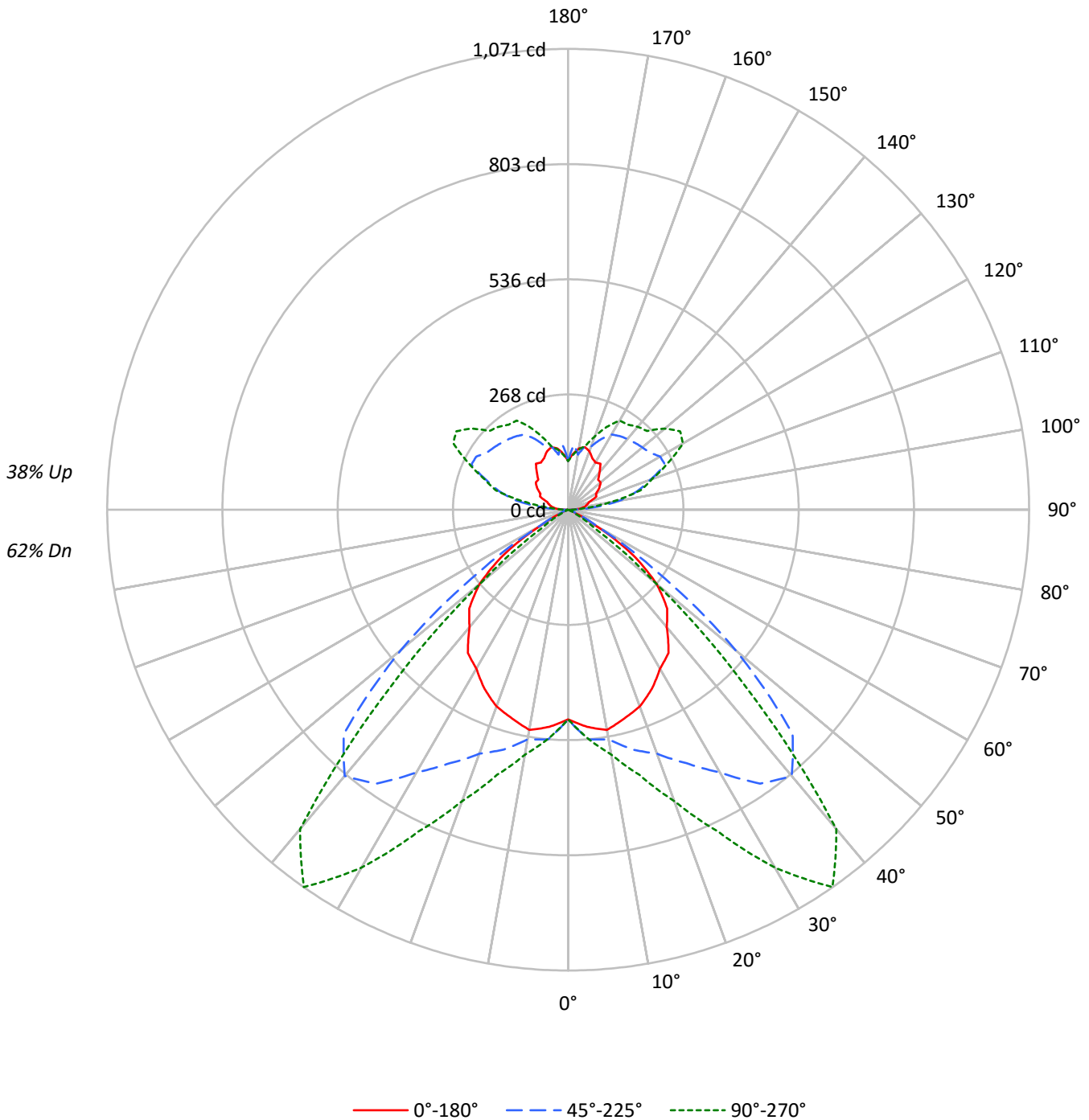
Lumens per Lamp: 4500 (1 lamp)
Luminaire Lumens: 2680.6 lumens
Efficiency: 59.6%
Efficacy: 45.4 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.94 / 1.71
Luminous Opening: Rectangular w/ Sides (W: 0.57' x L: 3.98' x H: 0.33')
CIE Type: Semi-Direct

Input Watts (W): 59
Input Voltage (V): NR
Input Current (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				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	66	66	66	66	61	61	61	61	54	54	54		47	47	47		40	40	40	37
1	61	59	57	55	57	55	53	52	48	47	46		42	42	41		37	36	36	33
2	56	52	49	46	53	49	46	44	43	41	40		38	37	35		33	32	31	29
3	52	46	42	39	48	44	40	38	39	36	34		34	32	31		30	29	28	25
4	47	42	37	34	45	39	35	32	35	32	30		31	29	27		27	26	24	22
5	44	37	33	29	41	35	31	28	32	28	26		28	26	23		25	23	21	20
6	40	33	29	26	38	32	28	25	28	25	23		25	23	21		23	20	19	17
7	37	30	26	22	35	29	25	22	26	22	20		23	20	18		21	18	17	15
8	35	27	23	20	33	26	22	19	24	20	18		21	18	16		19	17	15	14
9	32	25	21	18	30	24	20	17	22	18	16		19	17	15		17	15	13	12
10	30	23	19	16	28	22	18	15	20	16	14		18	15	13		16	14	12	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2292	2292	2292
5°	2375	2432	2402
10°	2447	2391	2506
15°	2393	2497	2691
20°	2364	2583	2982
25°	2296	2772	3381
30°	2210	3016	3914
35°	2205	3364	4381
40°	2045	3565	4011
45°	1995	3344	2474
50°	1784	2381	1135
55°	1350	1234	346
60°	615	413	109
65°	168	122	34
70°	86	69	17
75°	55	52	7
80°	50	36	4
85°	53	31	11



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	50.7	1.9	1.1
10°-20°	163.2	6.1	3.6
20°-30°	302.7	11.3	6.7
30°-40°	467.7	17.4	10.4
40°-50°	446.6	16.7	9.9
50°-60°	193.4	7.2	4.3
60°-70°	29.4	1.1	0.7
70°-80°	5.7	0.2	0.1
80°-90°	4.9	0.2	0.1
90°-100°	57.0	2.1	1.3
100°-110°	147.6	5.5	3.3
110°-120°	197.4	7.4	4.4
120°-130°	198.1	7.4	4.4
130°-140°	157.5	5.9	3.5
140°-150°	121.5	4.5	2.7
150°-160°	82.0	3.1	1.8
160°-170°	42.4	1.6	0.9
170°-180°	12.7	0.5	0.3
0°-30°	516.6	19.3	11.5
0°-40°	984.3	36.7	21.9
0°-60°	1624.4	60.6	36.1
0°-90°	1664.2	62.1	37.0
90°-120°	402.1	15.0	8.9
90°-150°	879.3	32.8	19.5
90°-180°	1016.0	37.9	22.6
0°-180°	2680.6	100.0	59.6

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	487	487	487	487	487	
5°	507	525	536	530	534	49
15°	502	511	577	623	638	142
25°	460	534	650	773	826	211
35°	406	538	777	1005	1071	250
45°	325	528	737	657	586	246
55°	184	319	251	116	77	158
65°	18	28	22	12	7	29
75°	4	6	8	4	1	5
85°	2	2	4	4	2	2
90°	5	8	8	14	7	5
95°	26	56	55	56	34	22
105°	45	122	166	178	174	48
115°	72	150	248	246	254	67
125°	88	163	231	299	318	78
135°	98	153	220	253	259	79
145°	131	146	209	230	241	79
155°	132	150	180	214	212	62
165°	150	142	152	150	153	42
175°	130	135	151	130	128	13
180°	113	113	113	113	113	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	487.2	487.2	487.2	487.2	487.2
5°	506.6	524.8	536.0	530.5	534.3
10°	519.7	527.3	541.8	582.3	578.0
15°	502.4	511.2	576.7	622.8	637.9
20°	486.5	525.6	603.5	682.3	720.7
25°	459.6	534.4	650.1	773.3	826.4
30°	426.5	535.3	704.8	875.8	960.4
35°	406.4	538.1	777.2	1005.0	1070.7
40°	356.3	552.4	807.7	951.9	969.1
45°	324.8	528.5	737.0	656.9	586.3
50°	268.0	456.8	506.2	331.1	261.6
55°	184.2	318.6	250.7	116.4	77.0
60°	74.8	134.8	79.4	33.5	23.2
65°	17.8	28.2	22.0	11.9	6.8
70°	7.7	10.0	11.5	6.3	3.1
75°	4.0	6.1	7.9	3.5	1.3
80°	2.7	3.9	4.9	1.8	0.6
85°	1.9	2.4	3.6	3.5	1.5
90°	4.6	7.6	8.5	14.3	7.4
95°	26.5	55.7	54.8	56.1	34.2
100°	38.6	94.0	121.3	123.9	98.3
105°	45.2	121.6	166.2	178.0	173.7
110°	51.8	144.2	202.4	201.7	206.5
115°	72.1	150.1	247.9	246.1	254.5
120°	74.5	157.1	246.6	300.0	307.8
125°	88.0	162.6	230.8	299.3	317.5
130°	98.3	155.3	225.0	270.6	293.0
135°	98.3	152.7	219.6	252.9	258.6
140°	113.0	152.2	214.3	250.0	251.6
145°	130.6	146.0	208.7	230.1	241.1
150°	126.6	143.7	201.6	223.2	239.2
155°	132.1	149.7	180.5	214.3	212.2
160°	144.2	143.5	156.8	176.0	181.3
165°	150.5	141.8	152.4	150.0	153.0
170°	144.6	132.0	129.8	141.2	141.9
175°	130.3	134.8	151.4	130.2	127.9
180°	113.0	113.0	113.0	113.0	113.0

(END OF REPORT)