

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: 89105

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 89105
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: E2-SH-1T5-DL-3
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

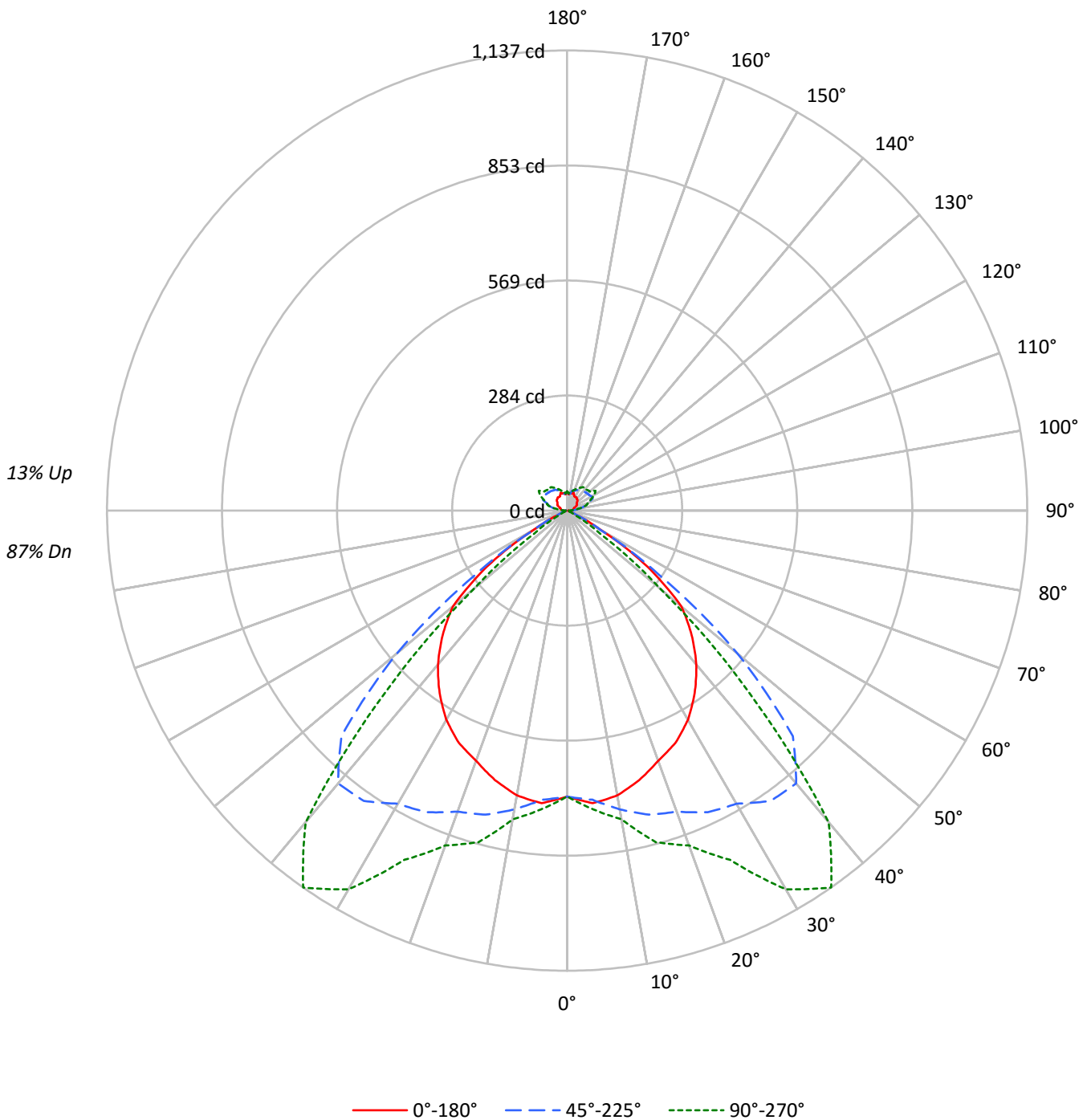
Lumens per Lamp: 4500 (1 lamp)
Luminaire Lumens: 2262.7 lumens
Efficiency: 50.3%
Efficacy: 38.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.8 / 1.6
Luminous Opening: Rectangular w/ Sides (W: 0.57' x L: 3.98' x H: 0.33')
CIE Type: Semi-Direct

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									
RC	80									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	58	58	58	58	56	56	56	56	52	52	52	49	49	49	45	45	45	44																			
1	54	53	51	50	53	51	49	48	48	46	45	45	44	43	42	41	41	39																			
2	51	47	45	42	49	46	43	41	43	41	39	40	39	38	38	37	36	35																			
3	47	42	39	36	45	41	38	36	39	36	34	37	35	33	35	33	32	30																			
4	43	38	34	32	42	37	34	31	35	32	30	33	31	29	31	29	28	27																			
5	40	34	31	28	39	33	30	27	32	29	26	30	28	26	29	26	25	24																			
6	37	31	27	24	36	30	27	24	29	26	23	27	25	23	26	24	22	21																			
7	34	28	24	22	33	28	24	21	26	23	21	25	22	20	24	21	20	19																			
8	32	26	22	19	31	25	22	19	24	21	19	23	20	18	22	19	18	17																			
9	30	24	20	17	29	23	20	17	22	19	17	21	18	16	20	18	16	15																			
10	28	22	18	16	27	21	18	15	20	17	15	19	17	15	19	16	14	14																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3323	3323	3323
5°	3402	3254	3331
10°	3364	3308	3360
15°	3283	3367	3578
20°	3196	3388	3644
25°	3165	3506	3895
30°	3093	3579	4404
35°	2982	3791	4653
40°	2851	3885	4161
45°	2672	3577	2676
50°	2453	2582	1295
55°	1779	1365	447
60°	804	488	127
65°	205	143	38
70°	93	80	18
75°	62	57	9
80°	55	37	4
85°	61	26	6



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	69.9	3.1	1.6
10°-20°	217.7	9.6	4.8
20°-30°	374.0	16.5	8.3
30°-40°	535.6	23.7	11.9
40°-50°	499.5	22.1	11.1
50°-60°	223.5	9.9	5.0
60°-70°	33.8	1.5	0.8
70°-80°	6.4	0.3	0.1
80°-90°	3.7	0.2	0.1
90°-100°	19.5	0.9	0.4
100°-110°	43.0	1.9	1.0
110°-120°	55.3	2.4	1.2
120°-130°	56.0	2.5	1.2
130°-140°	45.8	2.0	1.0
140°-150°	36.3	1.6	0.8
150°-160°	25.0	1.1	0.6
160°-170°	13.7	0.6	0.3
170°-180°	4.2	0.2	0.1
0°-30°	661.6	29.2	14.7
0°-40°	1197.1	52.9	26.6
0°-60°	1920.1	84.9	42.7
0°-90°	1964.0	86.8	43.6
90°-120°	117.8	5.2	2.6
90°-150°	255.9	11.3	5.7
90°-180°	299.0	13.2	6.6
0°-180°	2262.7	100.0	50.3

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	706	706	706	706	706	
5°	726	723	717	727	741	69
15°	689	714	778	816	848	194
25°	633	702	822	896	952	291
35°	550	679	876	1090	1137	343
45°	435	623	788	703	634	335
55°	243	362	277	141	99	212
65°	22	31	26	14	8	37
75°	4	7	9	4	2	5
85°	2	3	3	2	1	2
90°	6	6	5	6	4	4
95°	14	22	20	17	14	10
105°	17	36	47	54	49	17
115°	23	44	70	69	64	23
125°	29	45	66	84	85	26
135°	37	46	64	70	72	27
145°	40	44	60	73	71	25
155°	41	47	56	65	60	19
165°	43	49	52	48	50	13
175°	40	39	42	47	42	4
180°	48	48	48	48	48	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	706.5	706.5	706.5	706.5	706.5
5°	725.7	723.1	717.2	726.7	741.0
10°	714.5	729.3	749.4	775.0	774.8
15°	689.2	714.2	777.7	815.7	848.2
20°	657.7	701.8	791.6	855.5	880.5
25°	633.4	702.4	822.3	895.6	952.2
30°	596.8	681.6	836.3	1004.1	1080.6
35°	549.6	679.4	875.7	1089.5	1137.1
40°	496.7	654.9	880.2	1021.4	1005.2
45°	435.1	622.9	788.5	702.6	634.0
50°	368.4	531.7	549.0	368.0	298.4
55°	242.7	362.1	277.2	140.9	99.4
60°	97.8	146.7	93.8	41.6	26.9
65°	21.7	30.6	25.7	13.6	7.6
70°	8.3	11.7	13.2	6.7	3.4
75°	4.5	7.4	8.6	4.0	1.5
80°	3.0	4.5	5.0	2.1	0.6
85°	2.2	2.7	3.1	2.1	0.9
90°	5.5	5.9	5.4	5.5	4.2
95°	14.2	21.5	19.5	16.7	13.7
100°	14.9	29.8	34.0	34.2	30.6
105°	16.6	36.2	46.8	54.2	48.8
110°	18.0	42.2	53.1	58.6	54.5
115°	23.0	43.8	69.9	69.0	64.3
120°	28.4	44.9	69.9	82.5	77.8
125°	28.7	44.8	66.5	83.9	85.3
130°	31.3	47.5	65.6	78.0	73.5
135°	36.7	45.8	63.7	70.4	71.6
140°	37.5	48.8	62.9	69.9	68.6
145°	40.0	44.2	60.4	72.8	70.6
150°	38.6	49.1	59.5	64.2	65.3
155°	40.7	46.8	55.6	65.3	60.3
160°	47.0	44.8	52.2	53.4	54.9
165°	43.1	48.9	51.9	47.7	50.1
170°	43.3	44.4	41.9	45.3	47.3
175°	39.9	39.0	42.3	46.6	42.1
180°	47.7	47.7	47.7	47.7	47.7

(END OF REPORT)