

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: 89102

Luminaire Tested: **E2-SH-1T5-DL-6**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 89102
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: E2-SH-1T5-DL-6
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

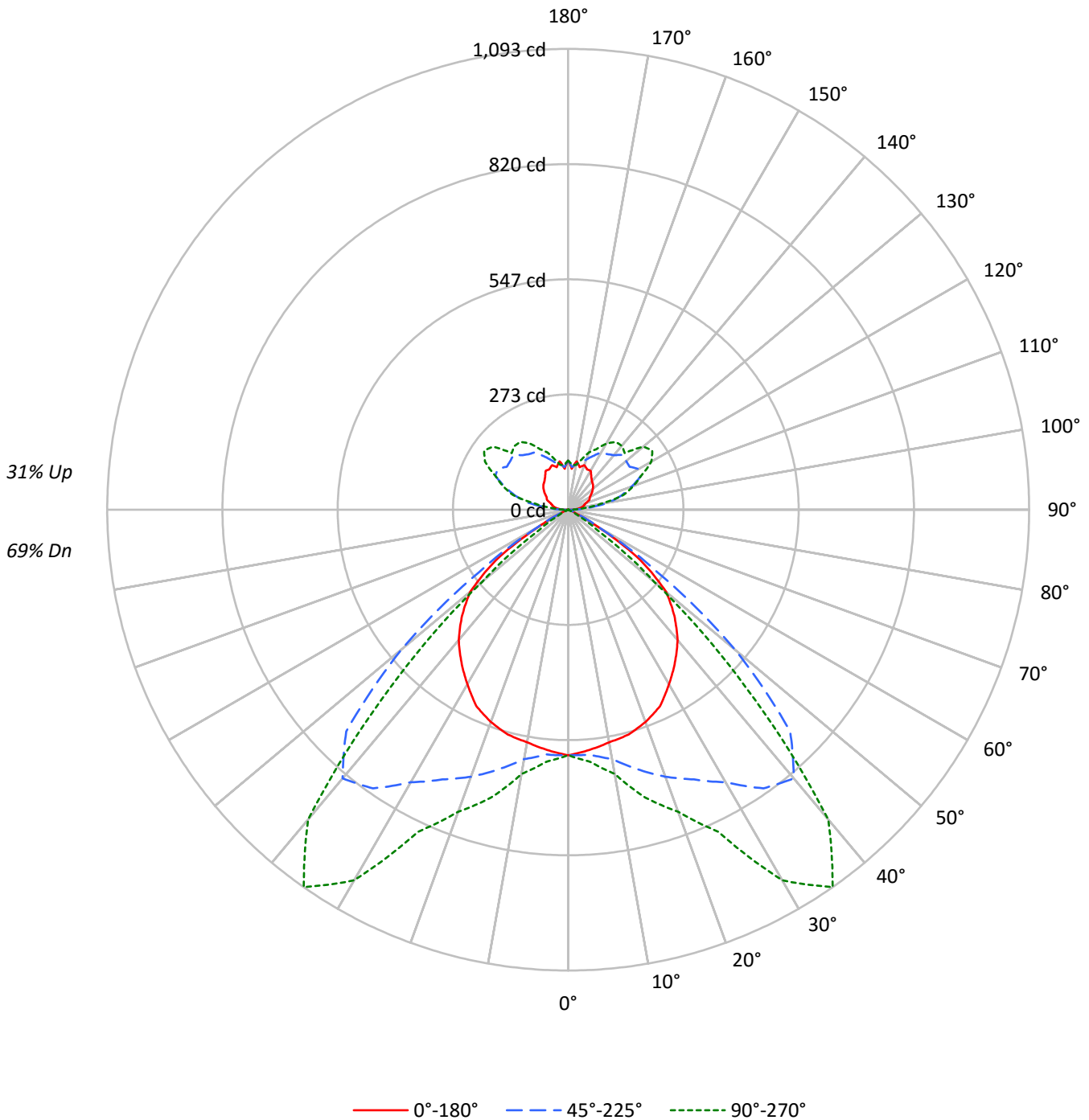
Lumens per Lamp: 4500 (1 lamp)
Luminaire Lumens: 2551.1 lumens
Efficiency: 56.7%
Efficacy: 43.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.86 / 1.65
Luminous Opening: Rectangular w/ Sides (W: 0.57' x L: 3.98' x H: 0.33')
CIE Type: Semi-Direct

Input Watts (W): 59
Input Voltage (V): NR
Input Current (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	63	63	63	63	60	60	60	60	53	53	53		47	47	47		42	42	42	39
1	59	57	55	53	56	54	52	51	48	47	46		43	42	41		38	38	37	35
2	54	51	48	45	51	48	45	43	43	41	39		39	37	36		35	34	33	31
3	50	45	41	38	47	43	40	37	39	36	34		35	33	31		32	30	29	27
4	46	40	36	33	44	39	35	32	35	32	30		32	29	27		29	27	25	24
5	43	36	32	29	40	35	31	28	32	28	26		29	26	24		26	24	22	21
6	39	33	28	25	37	31	27	24	29	25	23		26	23	21		24	21	20	18
7	36	30	25	22	34	28	24	21	26	23	20		24	21	19		22	19	18	16
8	34	27	23	20	32	26	22	19	24	20	18		22	19	17		20	17	16	15
9	31	25	20	18	30	24	20	17	22	18	16		20	17	15		18	16	14	13
10	29	23	18	16	28	22	18	15	20	17	14		18	16	14		17	14	13	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2740	2740	2740
5°	2682	2645	2698
10°	2637	2650	2760
15°	2631	2760	2984
20°	2602	2884	3154
25°	2571	3010	3448
30°	2477	3195	4137
35°	2396	3493	4471
40°	2317	3672	3970
45°	2185	3376	2513
50°	2017	2422	1160
55°	1536	1272	375
60°	655	440	111
65°	178	131	33
70°	91	71	17
75°	61	54	8
80°	52	36	3
85°	58	32	9



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	56.7	2.2	1.3
10°-20°	179.0	7.0	4.0
20°-30°	324.0	12.7	7.2
30°-40°	487.2	19.1	10.8
40°-50°	461.3	18.1	10.3
50°-60°	203.4	8.0	4.5
60°-70°	30.4	1.2	0.7
70°-80°	5.9	0.2	0.1
80°-90°	4.7	0.2	0.1
90°-100°	45.9	1.8	1.0
100°-110°	118.0	4.6	2.6
110°-120°	152.5	6.0	3.4
120°-130°	153.2	6.0	3.4
130°-140°	124.4	4.9	2.8
140°-150°	96.1	3.8	2.1
150°-160°	64.8	2.5	1.4
160°-170°	33.3	1.3	0.7
170°-180°	10.3	0.4	0.2
0°-30°	559.8	21.9	12.4
0°-40°	1046.9	41.0	23.3
0°-60°	1711.6	67.1	38.0
0°-90°	1752.6	68.7	38.9
90°-120°	316.3	12.4	7.0
90°-150°	690.1	27.1	15.3
90°-180°	798.0	31.3	17.7
0°-180°	2551.1	100.0	56.7

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	582	582	582	582	582	
5°	572	593	583	596	600	54
15°	552	573	638	664	707	156
25°	514	581	706	810	843	236
35°	442	578	807	1023	1093	276
45°	356	551	744	675	596	274
55°	210	336	258	124	83	178
65°	19	28	24	13	7	31
75°	4	6	8	4	1	5
85°	2	2	4	3	1	2
90°	5	7	8	12	7	5
95°	22	42	42	47	30	19
105°	39	97	130	147	136	41
115°	56	119	190	188	191	53
125°	68	123	178	236	243	61
135°	83	122	183	195	190	64
145°	95	121	161	183	196	60
155°	105	118	141	171	158	50
165°	104	110	115	122	123	31
175°	98	109	101	107	106	10
180°	117	117	117	117	117	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	582.5	582.5	582.5	582.5	582.5
5°	572.1	592.9	582.9	595.6	600.1
10°	560.1	594.8	600.5	626.5	636.6
15°	552.2	572.8	637.5	664.1	707.3
20°	535.6	583.1	673.9	733.9	762.2
25°	514.5	581.2	706.0	810.0	842.8
30°	478.0	581.2	746.5	904.0	1015.1
35°	441.5	578.5	806.9	1023.4	1092.8
40°	403.6	578.9	832.0	979.4	959.1
45°	355.8	550.8	744.2	675.0	595.5
50°	302.9	490.8	514.8	339.9	267.4
55°	209.5	335.7	258.3	123.8	83.4
60°	79.7	136.4	84.6	35.3	23.6
65°	18.8	27.9	23.5	12.6	6.7
70°	8.1	11.0	11.7	6.5	3.2
75°	4.4	6.4	8.2	3.5	1.4
80°	2.8	4.3	4.9	2.0	0.5
85°	2.1	2.5	3.7	3.1	1.3
90°	5.4	6.9	8.1	12.3	6.9
95°	22.5	42.4	42.3	46.9	30.0
100°	32.9	75.4	96.1	98.2	76.5
105°	38.9	96.8	130.5	146.9	136.1
110°	43.5	117.2	159.5	158.2	164.7
115°	55.6	119.2	190.5	188.3	190.9
120°	58.8	120.2	193.0	222.8	227.6
125°	67.8	123.4	177.6	235.8	243.4
130°	76.2	125.0	179.3	209.1	233.0
135°	83.2	122.1	183.2	194.8	189.8
140°	87.6	116.7	168.7	199.9	197.7
145°	95.0	120.6	160.9	182.8	196.2
150°	106.7	116.5	157.2	180.6	180.8
155°	105.4	117.6	140.6	170.6	158.4
160°	112.3	115.2	127.0	141.9	144.6
165°	104.4	110.4	114.9	122.2	123.2
170°	116.7	101.1	109.6	108.3	107.5
175°	97.6	109.1	101.4	107.0	106.5
180°	116.6	116.6	116.6	116.6	116.6

(END OF REPORT)