

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: 89181

Luminaire Tested: **E2-SH-2T8-DL-6**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 89181
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: E2-SH-2T8-DL-6
Description: CORELITE ELEMENT SUSPENDED LUMINAIRE
WHITE INTERIOR WITH SPECULAR REFLECTORS AND 38 CELL HI PERFORMANCE LOUVER
BLADE
Light Source: 32 WATT T8 LAMPS
F32T8/TL841. LUMEN RATING = 3000 LMS.
Ballast/Driver: -

Summary

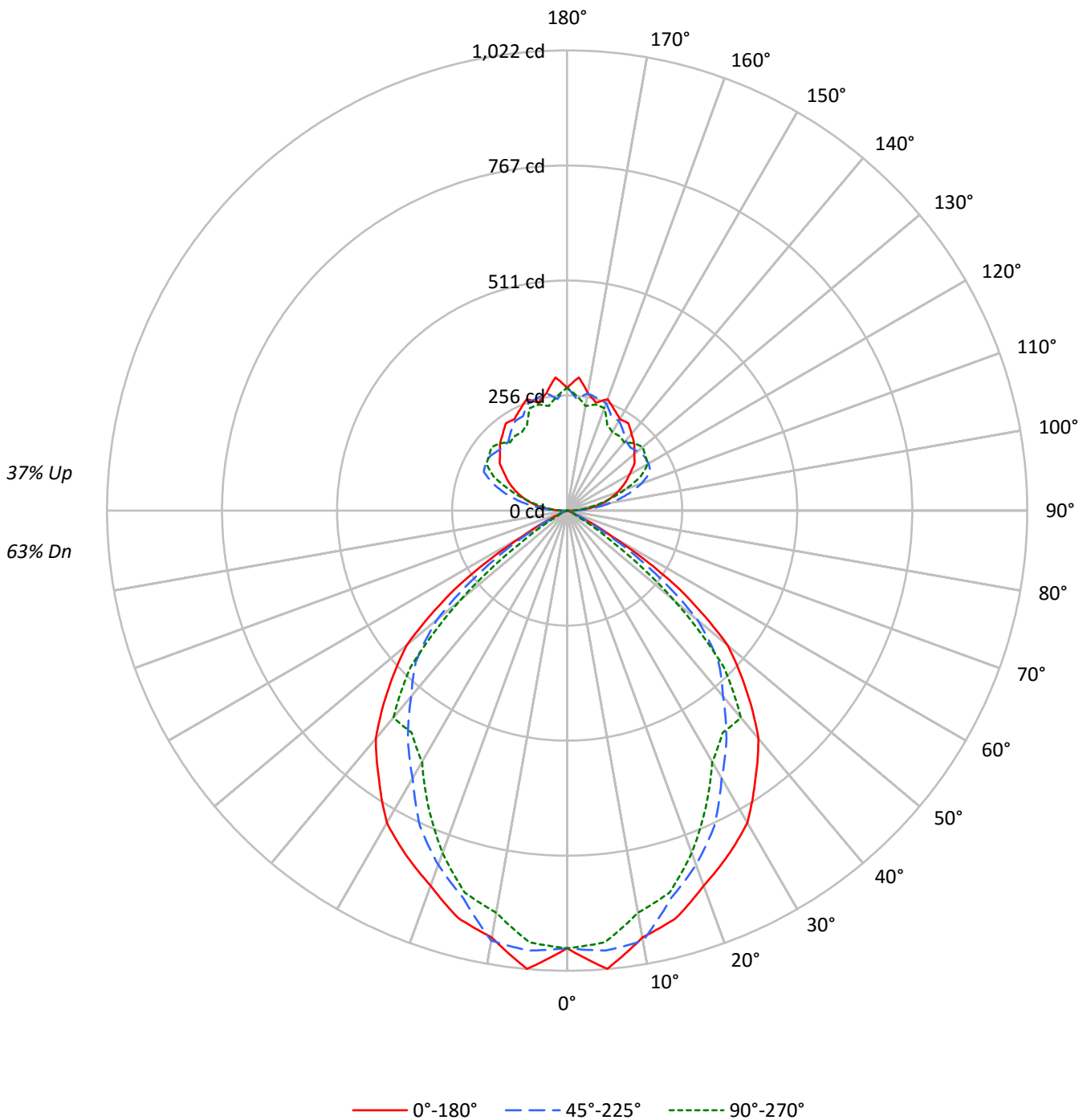
Lumens per Lamp: 2900 (2 lamps)
Luminaire Lumens: 2765.8 lumens
Efficiency: 47.7%
Efficacy: 35.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.03 / 1.19
Luminous Opening: Rectangular w/ Sides (W: 0.57' x L: 3.98' x H: 0.33')
CIE Type: Semi-Direct

Input Watts (W): 78
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	53	53	53	53	49	49	49	49	43	43	43	37	37	37	32	32	32	30
1	49	47	45	44	46	44	43	42	39	38	37	34	34	33	30	29	29	27
2	45	42	40	37	42	40	37	36	35	34	32	31	30	29	27	26	26	24
3	42	38	35	32	39	36	33	31	32	30	28	28	27	25	25	24	23	21
4	39	34	31	28	36	32	29	27	29	26	25	26	24	22	23	21	20	19
5	36	31	27	24	34	29	26	23	26	24	22	23	21	20	21	19	18	17
6	33	28	24	22	31	26	23	21	24	21	19	21	19	18	19	18	16	15
7	31	25	22	19	29	24	21	19	22	19	17	20	18	16	18	16	15	14
8	29	23	20	17	27	22	19	17	20	17	16	18	16	14	16	15	13	12
9	27	21	18	16	25	20	17	15	18	16	14	17	15	13	15	13	12	11
10	25	20	16	14	24	19	16	14	17	15	13	16	13	12	14	12	11	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4572	4572	4572
5°	4790	4450	4327
10°	4532	4281	3933
15°	4462	3857	3706
20°	4308	3583	3348
25°	4223	3298	2978
30°	4151	2938	2628
35°	3955	2670	2464
40°	3794	2378	2484
45°	3454	2156	2076
50°	3096	1778	1351
55°	2232	1105	578
60°	947	450	145
65°	205	129	37
70°	107	68	17
75°	79	49	9
80°	66	35	3
85°	91	39	11



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	91.9	3.3	1.6
10°-20°	253.1	9.2	4.4
20°-30°	358.4	13.0	6.2
30°-40°	402.3	14.5	6.9
40°-50°	382.3	13.8	6.6
50°-60°	198.0	7.2	3.4
60°-70°	30.4	1.1	0.5
70°-80°	6.0	0.2	0.1
80°-90°	6.9	0.2	0.1
90°-100°	53.9	1.9	0.9
100°-110°	126.3	4.6	2.2
110°-120°	174.5	6.3	3.0
120°-130°	180.5	6.5	3.1
130°-140°	159.7	5.8	2.8
140°-150°	136.3	4.9	2.3
150°-160°	109.3	4.0	1.9
160°-170°	71.5	2.6	1.2
170°-180°	24.5	0.9	0.4
0°-30°	703.4	25.4	12.1
0°-40°	1105.7	40.0	19.1
0°-60°	1686.0	61.0	29.1
0°-90°	1729.3	62.5	29.8
90°-120°	354.7	12.8	6.1
90°-150°	831.2	30.1	14.3
90°-180°	1037.0	37.5	17.9
0°-180°	2765.8	100.0	47.7

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	972	972	972	972	972	
5°	1022	952	981	969	962	95
15°	937	914	891	878	878	263
25°	845	826	774	738	728	390
35°	729	682	617	598	602	457
45°	562	518	475	507	492	434
55°	304	267	224	151	128	264
65°	22	24	23	12	7	41
75°	6	7	7	4	2	6
85°	3	4	5	4	2	3
90°	10	14	14	19	10	9
95°	44	53	53	52	34	40
105°	96	138	138	112	96	101
115°	140	166	204	187	181	138
125°	182	178	210	224	212	161
135°	210	205	198	204	211	162
145°	237	238	217	192	202	146
155°	247	249	231	226	210	115
165°	248	253	258	247	244	73
175°	297	244	248	239	255	27
180°	273	273	273	273	273	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	972.0	972.0	972.0	972.0	972.0
5°	1021.8	952.3	980.9	968.7	962.5
10°	962.8	955.9	969.9	922.8	907.0
15°	936.6	914.1	891.0	878.5	878.5
20°	886.6	885.5	837.3	813.1	809.1
25°	845.2	826.1	773.6	737.9	728.0
30°	800.9	752.5	686.5	648.0	644.7
35°	728.9	681.6	616.8	598.4	602.1
40°	661.0	600.8	538.7	571.5	600.2
45°	562.4	518.1	475.3	507.2	491.8
50°	465.0	423.4	377.9	346.9	311.3
55°	304.5	267.0	224.4	151.4	128.5
60°	115.2	107.1	86.4	47.0	30.7
65°	21.7	24.1	23.2	12.5	7.4
70°	9.6	10.2	11.2	6.2	3.2
75°	5.7	7.0	7.4	3.6	1.6
80°	3.6	5.0	4.7	2.0	0.5
85°	3.3	3.6	4.6	4.2	1.6
90°	9.9	14.3	14.5	18.6	9.9
95°	43.5	53.3	53.1	51.5	33.7
100°	71.6	99.3	97.5	78.3	60.9
105°	96.1	137.5	138.2	111.9	95.5
110°	118.6	156.3	175.2	145.5	137.0
115°	140.3	166.5	204.3	187.4	180.7
120°	159.7	169.4	208.7	212.3	206.5
125°	182.5	178.4	209.6	224.5	212.0
130°	194.4	194.5	204.1	223.2	219.1
135°	210.5	205.0	198.4	204.2	211.0
140°	222.2	221.6	202.2	200.9	197.6
145°	236.9	237.7	216.6	192.5	202.1
150°	234.3	247.5	230.2	213.4	200.9
155°	247.4	249.3	231.4	226.5	210.4
160°	263.2	258.2	253.4	243.3	242.0
165°	247.9	252.9	258.2	247.0	243.7
170°	264.6	259.5	264.1	251.9	235.7
175°	296.8	243.9	248.5	239.4	254.9
180°	272.6	272.6	272.6	272.6	272.6

(END OF REPORT)