

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: 89068

Luminaire Tested: **E2-SB-2T8-DL-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 89068
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: E2-SB-2T8-DL-8
Description: CORELITE ELEMENT SUSPENDED LUMINAIRE
WHITE INTERIOR WITH SPECULAR REFLECTORS AND 19 CELL SEMI-SPECULAR LOUVER
BLADE
WITH DOWNLIGHT ISOLATORS
Light Source: 32 WATT T8 LAMPS
F32T8/TL841. LUMEN RATING = 3000 LMS.
Ballast/Driver: -

Summary

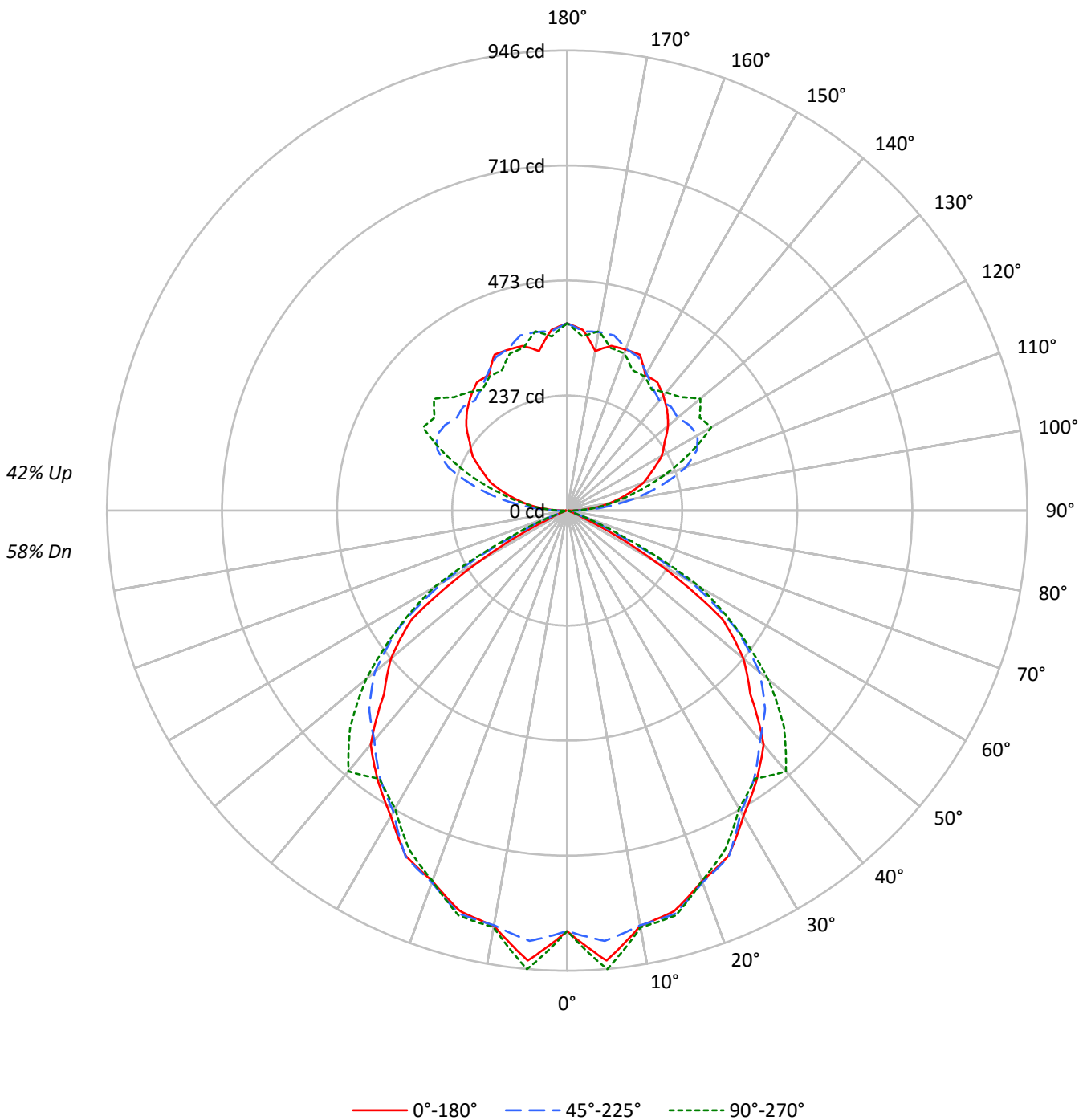
Lumens per Lamp: 2900 (2 lamps)
Luminaire Lumens: 3559.9 lumens
Efficiency: 61.4%
Efficacy: 45.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.22 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.57' x L: 4.02' x H: 0.33')
CIE Type: General Diffuse

Input Watts (W): 78
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	67	67	67	67	62	62	62	62	54	54	54	46	46	46	39	39	39	35
1	62	59	57	55	58	56	54	52	48	47	46	42	41	40	35	35	34	31
2	57	53	49	46	53	49	46	44	43	41	39	37	36	34	32	31	30	27
3	52	47	42	39	48	44	40	37	38	35	33	33	31	29	29	27	26	24
4	48	41	37	33	44	39	35	32	34	31	29	30	27	25	26	24	22	20
5	44	37	32	29	41	35	31	27	31	27	25	27	24	22	23	21	20	18
6	41	33	29	25	38	31	27	24	28	24	22	24	22	20	21	19	17	16
7	38	30	25	22	35	28	24	21	25	22	19	22	19	17	19	17	16	14
8	35	27	23	20	33	26	22	19	23	20	17	20	18	16	18	16	14	13
9	32	25	21	17	30	24	20	17	21	18	15	19	16	14	16	14	13	11
10	30	23	19	16	28	22	18	15	19	16	14	17	15	13	15	13	11	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4031	4031	4031
5°	4315	3993	4217
10°	4044	3786	3738
15°	4024	3681	3604
20°	3904	3451	3323
25°	3884	3319	3117
30°	3725	3031	2856
35°	3649	2879	2728
40°	3577	2699	2871
45°	3241	2588	2638
50°	3122	2406	2319
55°	2837	2069	1905
60°	1695	1523	1476
65°	389	593	631
70°	106	136	109
75°	70	76	38
80°	60	49	16
85°	72	52	19



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	84.0	2.4	1.4
10°-20°	238.7	6.7	4.1
20°-30°	357.5	10.0	6.2
30°-40°	424.1	11.9	7.3
40°-50°	446.5	12.5	7.7
50°-60°	360.5	10.1	6.2
60°-70°	119.8	3.4	2.1
70°-80°	11.6	0.3	0.2
80°-90°	8.2	0.2	0.1
90°-100°	74.4	2.1	1.3
100°-110°	183.8	5.2	3.2
110°-120°	257.1	7.2	4.4
120°-130°	267.0	7.5	4.6
130°-140°	236.2	6.6	4.1
140°-150°	197.1	5.5	3.4
150°-160°	156.7	4.4	2.7
160°-170°	101.6	2.9	1.8
170°-180°	34.9	1.0	0.6
0°-30°	680.1	19.1	11.7
0°-40°	1104.3	31.0	19.0
0°-60°	1911.3	53.7	33.0
0°-90°	2051.0	57.6	35.4
90°-120°	515.4	14.5	8.9
90°-150°	1215.7	34.2	21.0
90°-180°	1509.0	42.4	26.0
0°-180°	3559.9	100.0	61.4

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	865	865	865	865	865	
5°	929	883	888	884	946	86
15°	852	828	858	862	862	239
25°	784	787	785	774	769	358
35°	678	682	671	663	673	425
45°	532	543	575	630	631	418
55°	390	401	424	424	427	326
65°	42	58	108	133	128	73
75°	5	8	12	11	7	6
85°	3	4	6	6	3	3
90°	9	14	18	24	10	10
95°	50	73	73	73	53	48
105°	126	202	200	165	146	134
115°	193	230	294	288	278	193
125°	244	259	306	346	333	220
135°	291	292	302	320	329	224
145°	323	320	306	303	303	200
155°	354	362	347	317	318	159
165°	350	366	373	366	346	98
175°	373	373	370	352	359	34
180°	385	385	385	385	385	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	864.6	864.6	864.6	864.6	864.6
5°	928.6	882.9	888.0	883.8	946.5
10°	866.7	870.8	865.5	840.0	869.9
15°	852.1	827.8	857.8	862.0	862.0
20°	810.4	809.8	813.4	816.4	810.2
25°	784.1	787.4	785.4	773.7	768.8
30°	724.8	747.4	714.4	716.2	707.1
35°	678.1	681.8	670.9	662.7	672.7
40°	628.4	613.9	616.7	653.8	699.8
45°	532.1	543.3	575.4	630.0	630.6
50°	472.8	484.0	515.8	533.0	539.2
55°	390.2	401.2	423.8	424.4	427.3
60°	207.7	252.7	295.1	293.4	316.3
65°	41.5	57.7	107.5	133.3	127.8
70°	9.5	14.9	22.8	29.9	20.6
75°	5.1	8.5	11.5	10.9	6.7
80°	3.3	5.5	6.7	5.1	2.6
85°	2.6	3.5	6.1	5.5	2.7
90°	8.6	13.8	17.5	24.1	10.5
95°	50.4	73.0	73.4	73.1	53.4
100°	89.1	141.1	138.0	114.5	94.1
105°	126.0	201.9	200.1	164.6	146.4
110°	166.7	227.6	259.7	217.2	212.2
115°	192.9	230.1	294.1	288.5	278.0
120°	224.6	240.8	309.5	326.5	342.0
125°	244.3	259.2	306.5	346.0	332.6
130°	270.7	270.5	296.6	321.8	357.6
135°	290.8	291.8	301.9	319.9	329.3
140°	307.7	313.1	295.2	310.9	316.7
145°	322.6	320.4	306.4	303.1	303.2
150°	321.7	348.3	325.9	313.5	318.5
155°	353.6	361.8	347.4	316.8	318.1
160°	352.1	346.1	353.8	343.9	343.5
165°	350.4	366.0	372.7	365.8	345.9
170°	332.9	361.2	372.6	357.4	374.2
175°	372.7	372.9	369.8	351.5	359.3
180°	385.2	385.2	385.2	385.2	385.2

(END OF REPORT)