

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: 89072

Luminaire Tested: **E2-SB-2T8-DL-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 89072
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: E2-SB-2T8-DL-4
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

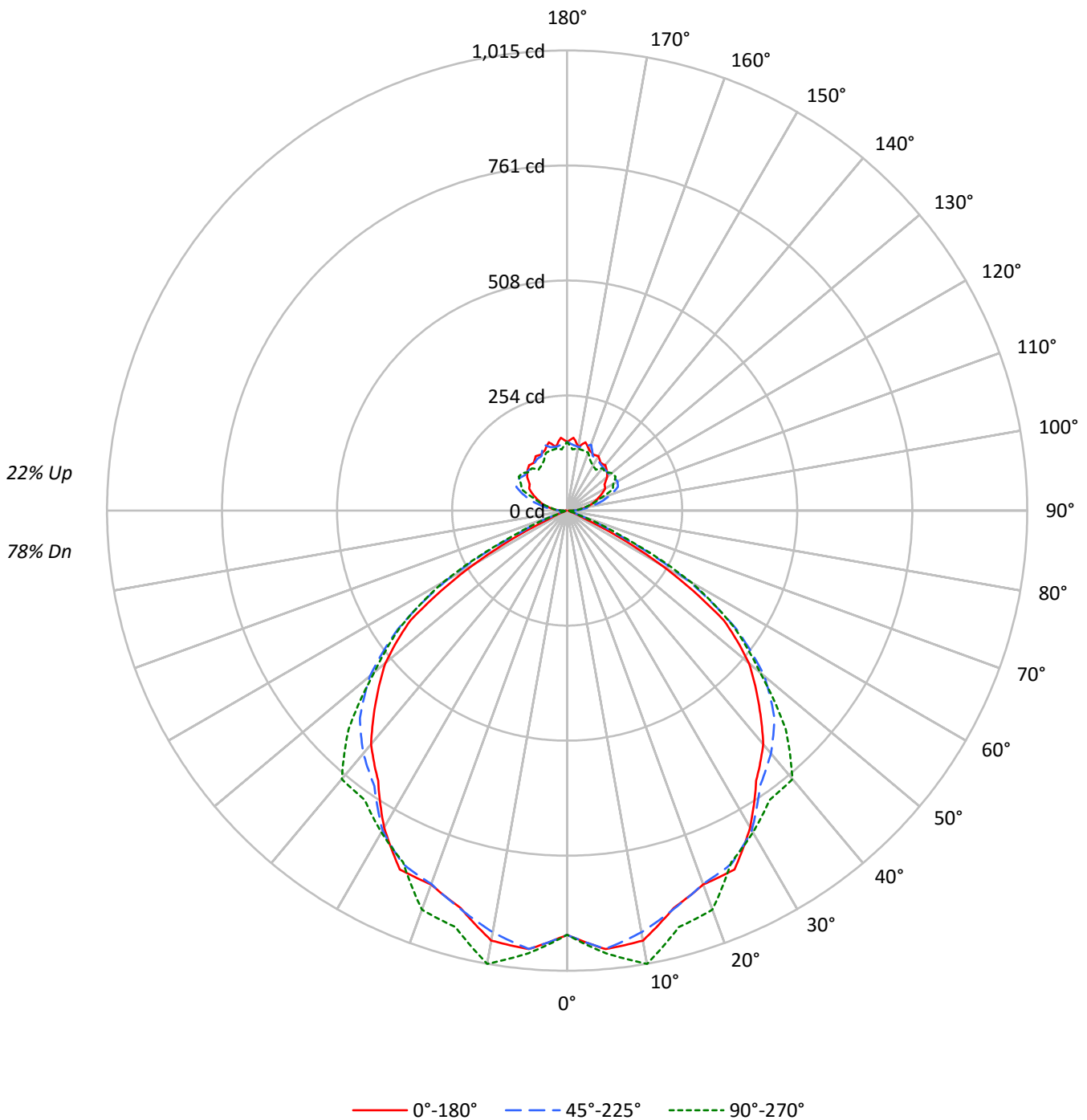
Lumens per Lamp: 2900 (2 lamps)
Luminaire Lumens: 2856.4 lumens
Efficiency: 49.2%
Efficacy: 36.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.57' x L: 4.02' x H: 0.33')
CIE Type: Semi-Direct

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	56	56	56	56	54	54	54	54	49	49	49	44	44	44	41	41	41	39
1	52	50	49	47	50	48	47	45	44	43	42	40	40	39	37	36	36	34
2	48	45	42	40	46	43	40	38	39	37	36	36	35	33	33	32	31	30
3	44	40	36	34	42	38	35	33	35	33	31	33	31	29	30	29	27	26
4	41	35	32	29	39	34	31	28	32	29	27	29	27	25	27	25	24	22
5	37	32	28	25	36	31	27	24	29	26	23	26	24	22	25	23	21	20
6	35	29	25	22	33	28	24	21	26	23	20	24	21	19	22	20	19	17
7	32	26	22	19	31	25	22	19	23	20	18	22	19	17	20	18	17	15
8	30	24	20	17	29	23	19	17	21	18	16	20	17	16	19	17	15	14
9	28	22	18	16	27	21	18	15	20	17	15	19	16	14	17	15	13	12
10	26	20	16	14	25	19	16	14	18	15	13	17	15	13	16	14	12	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4363	4363	4363
5°	4511	4365	4367
10°	4494	4132	4363
15°	4285	3903	3977
20°	4228	3718	3842
25°	4326	3631	3471
30°	4147	3456	3311
35°	3912	3183	3158
40°	3830	3059	3172
45°	3634	2908	2851
50°	3456	2647	2386
55°	3065	2224	2010
60°	1938	1576	1470
65°	428	621	638
70°	111	149	111
75°	67	81	39
80°	64	57	18
85°	74	44	14



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	91.7	3.2	1.6
10°-20°	260.8	9.1	4.5
20°-30°	392.8	13.8	6.8
30°-40°	472.4	16.5	8.1
40°-50°	491.3	17.2	8.5
50°-60°	386.5	13.5	6.7
60°-70°	126.7	4.4	2.2
70°-80°	12.3	0.4	0.2
80°-90°	6.7	0.2	0.1
90°-100°	34.0	1.2	0.6
100°-110°	74.1	2.6	1.3
110°-120°	104.3	3.7	1.8
120°-130°	108.3	3.8	1.9
130°-140°	96.3	3.4	1.7
140°-150°	80.4	2.8	1.4
150°-160°	63.0	2.2	1.1
160°-170°	40.8	1.4	0.7
170°-180°	14.0	0.5	0.2
0°-30°	745.3	26.1	12.9
0°-40°	1217.7	42.6	21.0
0°-60°	2095.6	73.4	36.1
0°-90°	2241.3	78.5	38.6
90°-120°	212.4	7.4	3.7
90°-150°	497.4	17.4	8.6
90°-180°	615.0	21.5	10.6
0°-180°	2856.4	100.0	49.2

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	936	936	936	936	936	
5°	971	945	971	988	980	92
15°	907	931	910	922	951	258
25°	873	837	859	853	856	396
35°	727	741	742	758	779	459
45°	597	615	646	667	682	461
55°	422	448	456	442	451	358
65°	46	66	112	142	129	83
75°	5	9	12	11	7	6
85°	3	4	5	5	2	3
90°	11	12	11	12	10	7
95°	29	35	32	31	26	25
105°	56	78	79	70	57	59
115°	83	95	124	115	111	82
125°	101	106	127	135	130	93
135°	124	121	123	129	119	95
145°	128	139	127	121	110	82
155°	136	142	133	134	121	64
165°	156	138	145	144	138	42
175°	161	149	146	144	136	15
180°	151	151	151	151	151	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	935.9	935.9	935.9	935.9	935.9
5°	970.8	945.3	970.7	987.5	980.1
10°	963.1	945.5	944.5	948.8	1015.3
15°	907.4	930.8	909.5	921.8	951.3
20°	877.7	887.7	876.4	881.9	936.8
25°	873.3	837.1	859.2	853.1	856.1
30°	807.1	791.9	814.6	808.7	819.6
35°	727.1	740.6	741.6	758.3	778.8
40°	672.8	681.6	699.2	737.0	773.3
45°	596.6	614.6	646.5	667.2	681.6
50°	523.4	527.2	567.6	569.3	554.9
55°	421.5	447.7	455.7	441.6	450.8
60°	237.6	276.1	305.4	301.2	315.0
65°	45.7	66.2	112.5	142.5	129.3
70°	10.0	16.3	24.9	30.5	21.0
75°	4.9	9.0	12.3	11.3	6.8
80°	3.5	5.9	7.7	5.8	2.8
85°	2.7	3.6	5.2	4.8	2.0
90°	11.0	11.5	10.6	12.0	9.6
95°	28.9	34.7	32.5	30.6	26.4
100°	41.5	58.7	54.2	51.1	37.0
105°	56.5	77.8	79.2	69.6	57.2
110°	68.2	86.1	102.0	92.7	75.6
115°	82.6	94.7	123.6	114.8	110.8
120°	96.7	102.5	128.1	133.7	117.3
125°	100.8	105.5	126.7	135.1	130.4
130°	114.7	115.7	121.6	135.7	128.7
135°	124.0	120.9	122.7	128.8	119.3
140°	130.6	133.5	123.4	124.9	121.6
145°	128.2	138.6	126.7	121.4	109.9
150°	138.4	141.8	131.7	130.5	114.0
155°	136.3	141.9	132.9	133.9	121.0
160°	142.3	149.6	154.6	134.4	135.8
165°	156.0	138.4	144.8	143.9	137.5
170°	142.4	147.1	142.5	145.5	138.5
175°	161.3	149.2	145.5	144.2	135.6
180°	151.2	151.2	151.2	151.2	151.2

(END OF REPORT)