

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: 89074

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 89074
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: E2-SB-2T8-DL-2
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

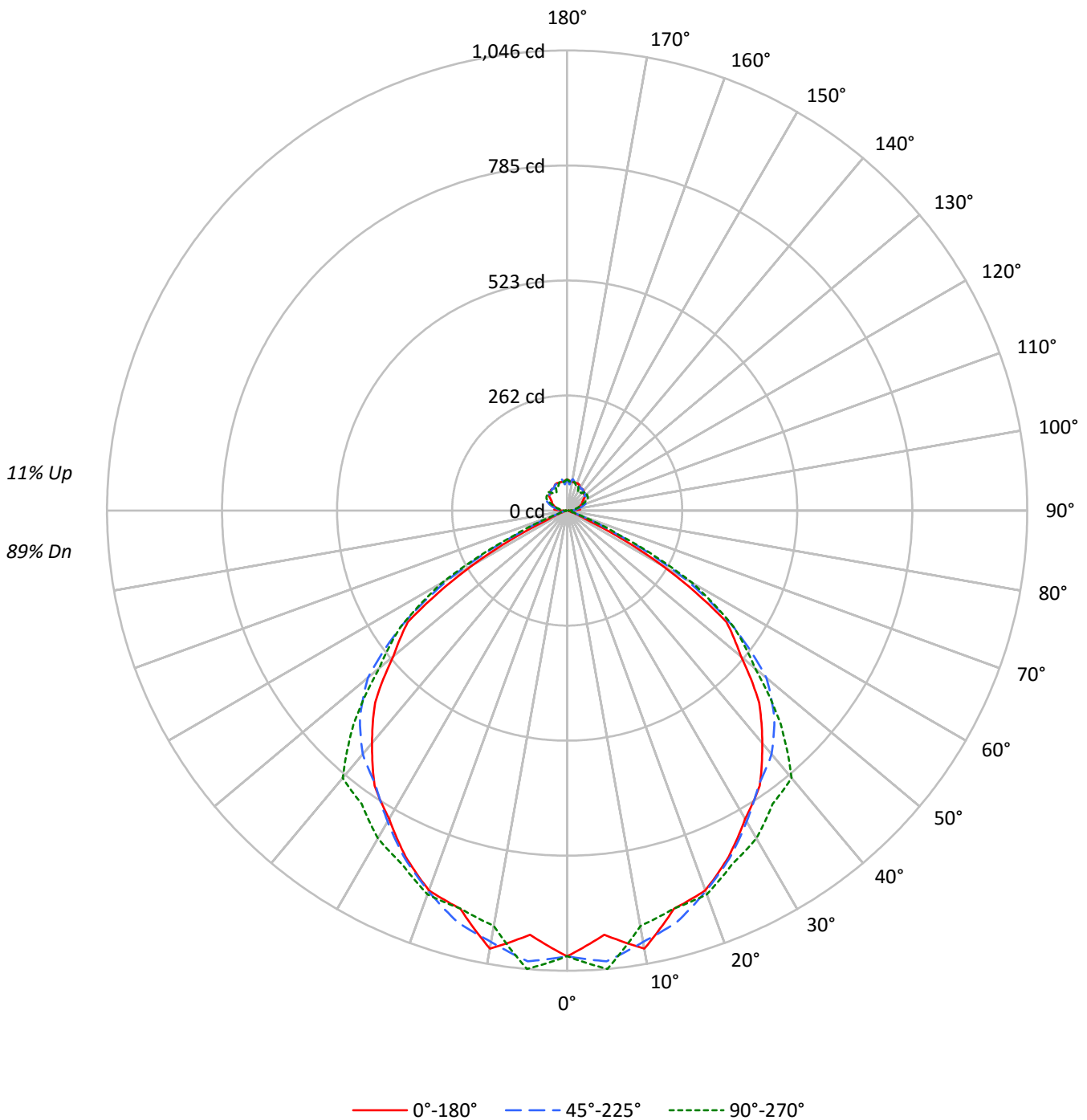
Lumens per Lamp: 2900 (2 lamps)
Luminaire Lumens: 2587.3 lumens
Efficiency: 44.6%
Efficacy: 33.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.57' x L: 4.02' x H: 0.33')
CIE Type: Semi-Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4723	4723	4723
5°	4497	4625	4660
10°	4718	4356	4120
15°	4426	4152	3916
20°	4425	3906	3808
25°	4302	3688	3597
30°	4159	3463	3476
35°	4108	3260	3302
40°	3927	3164	3256
45°	3762	2997	2871
50°	3404	2758	2398
55°	3217	2258	2068
60°	2036	1586	1528
65°	431	626	639
70°	129	155	115
75°	83	85	42
80°	66	58	20
85°	80	35	13



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	95.3	3.7	1.6
10°-20°	270.8	10.5	4.7
20°-30°	403.7	15.6	7.0
30°-40°	488.0	18.9	8.4
40°-50°	505.9	19.6	8.7
50°-60°	398.1	15.4	6.9
60°-70°	129.8	5.0	2.2
70°-80°	12.9	0.5	0.2
80°-90°	5.6	0.2	0.1
90°-100°	19.3	0.7	0.3
100°-110°	32.8	1.3	0.6
110°-120°	44.5	1.7	0.8
120°-130°	46.7	1.8	0.8
130°-140°	43.3	1.7	0.7
140°-150°	36.1	1.4	0.6
150°-160°	29.1	1.1	0.5
160°-170°	18.9	0.7	0.3
170°-180°	6.5	0.3	0.1
0°-30°	769.8	29.8	13.3
0°-40°	1257.8	48.6	21.7
0°-60°	2161.8	83.6	37.3
0°-90°	2310.1	89.3	39.8
90°-120°	96.6	3.7	1.7
90°-150°	222.7	8.6	3.8
90°-180°	277.0	10.7	4.8
0°-180°	2587.3	100.0	44.6

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1013	1013	1013	1013	1013	
5°	968	1024	1028	966	1046	94
15°	937	977	968	970	937	269
25°	868	868	873	879	887	400
35°	764	763	760	794	814	474
45°	618	624	666	696	686	471
55°	442	475	463	443	464	368
65°	46	66	114	146	130	86
75°	6	10	13	12	7	7
85°	3	4	4	4	2	3
90°	12	10	7	6	4	8
95°	29	24	18	15	12	19
105°	26	35	35	29	25	29
115°	38	41	51	50	44	37
125°	46	44	55	59	57	42
135°	53	54	57	60	60	42
145°	60	60	60	55	50	37
155°	65	69	64	63	61	30
165°	66	68	68	68	67	19
175°	68	74	60	62	66	6
180°	71	71	71	71	71	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1013.0	1013.0	1013.0	1013.0	1013.0
5°	967.8	1024.3	1028.5	966.5	1046.0
10°	1011.0	987.8	995.6	961.2	958.8
15°	937.2	976.6	967.5	970.4	936.7
20°	918.7	911.1	920.8	937.6	928.4
25°	868.4	868.0	872.6	878.7	887.2
30°	809.4	815.9	816.3	837.3	860.4
35°	763.5	762.7	759.6	794.2	814.2
40°	689.9	695.8	723.1	775.1	793.8
45°	617.6	624.5	666.3	695.7	686.4
50°	515.4	560.0	591.4	579.4	557.6
55°	442.4	475.4	462.7	443.4	463.9
60°	249.6	288.5	307.4	312.2	327.4
65°	46.0	65.8	113.5	146.3	129.5
70°	11.6	17.1	26.0	31.3	21.8
75°	6.0	9.7	12.9	11.5	7.3
80°	3.6	5.8	7.8	6.0	3.2
85°	2.9	3.7	4.1	3.5	1.9
90°	12.3	9.8	7.4	6.4	4.3
95°	29.4	24.4	18.1	15.3	11.6
100°	24.5	31.4	22.8	20.1	16.5
105°	26.0	34.9	34.6	29.0	25.3
110°	32.3	38.7	43.2	39.2	33.2
115°	37.9	40.7	50.8	50.0	43.9
120°	40.3	43.6	52.5	56.8	54.2
125°	46.1	43.6	54.8	58.9	56.9
130°	54.5	48.1	51.8	60.1	57.8
135°	53.1	53.8	56.7	59.5	59.6
140°	59.0	56.6	56.4	57.3	51.9
145°	59.9	60.0	60.2	54.6	50.4
150°	59.1	62.0	58.7	59.2	48.0
155°	65.2	68.8	64.5	63.3	60.6
160°	66.2	67.4	65.3	59.6	58.7
165°	65.5	67.5	67.5	68.5	67.3
170°	66.7	69.1	72.6	71.4	64.8
175°	67.6	73.8	60.0	61.7	66.3
180°	70.8	70.8	70.8	70.8	70.8

(END OF REPORT)