

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: 89179

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 89179
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: E2-SH-2T8-DL-8
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

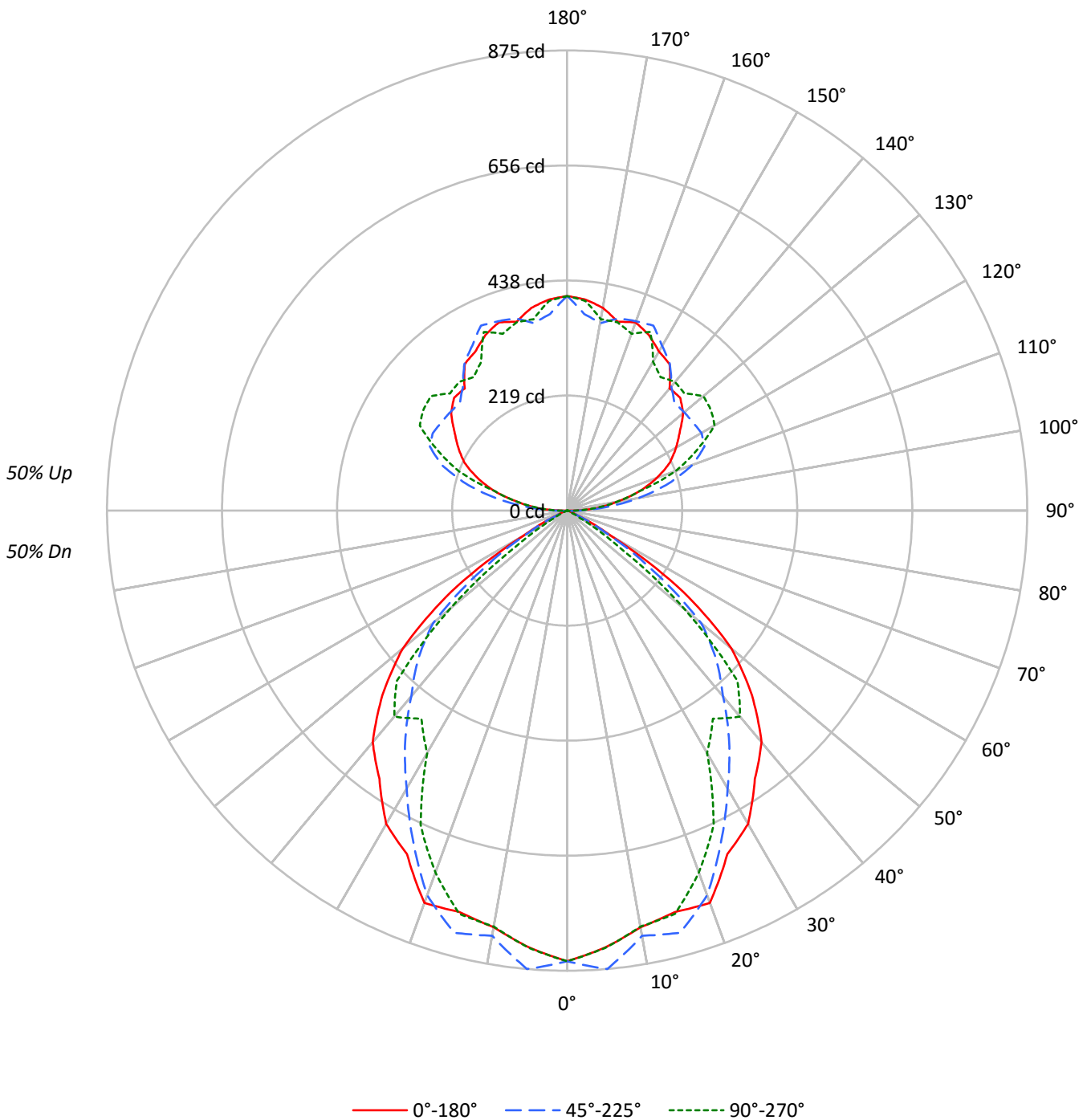
Lumens per Lamp: 2900 (2 lamps)
Luminaire Lumens: 3072.6 lumens
Efficiency: 53.0%
Efficacy: 39.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.02 / 1.17
Luminous Opening: Rectangular w/ Sides (W: 0.57' x L: 3.98' x H: 0.33')
CIE Type: General Diffuse

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	57	57	57	57	52	52	52	52	44	44	44	36	36	36	30	30	30	26
1	52	51	49	47	48	47	45	44	40	39	38	33	33	32	27	27	26	24
2	48	45	42	40	45	42	39	37	36	34	32	30	29	28	25	24	23	21
3	45	40	37	34	41	37	34	32	32	30	28	27	26	24	23	22	21	19
4	41	36	32	29	38	34	30	28	29	26	24	25	23	21	21	19	18	17
5	38	32	28	26	35	30	27	24	26	24	22	22	20	19	19	18	16	15
6	35	29	25	22	33	27	24	21	24	21	19	20	18	17	17	16	15	13
7	33	27	23	20	30	25	21	19	22	19	17	19	17	15	16	14	13	12
8	30	24	20	18	28	23	19	17	20	17	15	17	15	14	15	13	12	11
9	28	22	18	16	26	21	18	15	18	16	14	16	14	12	14	12	11	10
10	27	20	17	14	25	19	16	14	17	14	13	15	13	11	13	11	10	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4031	4031	4031
5°	3908	3971	3752
10°	3787	3623	3482
15°	3765	3597	3348
20°	3856	3330	3030
25°	3601	2956	2697
30°	3566	2611	2170
35°	3377	2325	1976
40°	3301	2035	2117
45°	3052	1819	1932
50°	2717	1565	1263
55°	1978	989	526
60°	804	448	133
65°	201	120	32
70°	83	58	14
75°	61	43	7
80°	64	30	3
85°	75	42	12



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	80.5	2.6	1.4
10°-20°	226.5	7.4	3.9
20°-30°	319.3	10.4	5.5
30°-40°	346.5	11.3	6.0
40°-50°	334.9	10.9	5.8
50°-60°	176.6	5.7	3.0
60°-70°	27.2	0.9	0.5
70°-80°	5.2	0.2	0.1
80°-90°	7.7	0.3	0.1
90°-100°	77.1	2.5	1.3
100°-110°	187.0	6.1	3.2
110°-120°	258.3	8.4	4.5
120°-130°	266.6	8.7	4.6
130°-140°	238.0	7.7	4.1
140°-150°	207.8	6.8	3.6
150°-160°	170.2	5.5	2.9
160°-170°	106.5	3.5	1.8
170°-180°	36.6	1.2	0.6
0°-30°	626.3	20.4	10.8
0°-40°	972.8	31.7	16.8
0°-60°	1484.3	48.3	25.6
0°-90°	1524.4	49.6	26.3
90°-120°	522.4	17.0	9.0
90°-150°	1234.8	40.2	21.3
90°-180°	1548.0	50.4	26.7
0°-180°	3072.6	100.0	53.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	857	857	857	857	857	
5°	834	882	875	831	835	79
15°	790	795	831	808	794	225
25°	721	737	693	651	659	337
35°	622	614	537	489	483	393
45°	497	456	401	451	458	381
55°	270	224	201	146	117	232
65°	21	21	22	11	6	36
75°	4	6	6	3	1	5
85°	3	3	5	4	2	3
90°	9	15	18	28	14	11
95°	56	75	73	74	52	52
105°	143	204	200	165	143	149
115°	215	234	288	291	272	211
125°	261	274	292	329	334	235
135°	304	311	289	314	315	232
145°	340	341	341	317	310	209
155°	368	373	388	363	375	169
165°	372	372	378	384	370	107
175°	403	384	375	376	400	38
180°	408	408	408	408	408	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	856.9	856.9	856.9	856.9	856.9
5°	833.7	882.1	875.2	830.7	834.6
10°	804.5	827.9	820.9	833.0	803.1
15°	790.3	795.0	830.9	808.5	793.6
20°	793.7	787.7	778.2	752.6	732.3
25°	720.7	737.3	693.3	650.6	659.3
30°	688.0	680.7	610.1	568.9	532.4
35°	622.4	613.8	537.0	488.6	483.0
40°	575.1	537.2	461.0	458.8	511.5
45°	497.0	455.7	401.0	450.9	457.7
50°	408.1	367.2	332.8	327.0	291.0
55°	269.9	223.7	200.9	146.0	117.0
60°	97.8	86.7	86.1	42.9	28.2
65°	21.3	20.8	21.6	11.4	6.5
70°	7.4	9.6	9.7	5.3	2.7
75°	4.4	6.3	6.5	2.9	1.2
80°	3.5	4.5	4.0	1.7	0.5
85°	2.7	3.4	4.9	4.0	1.7
90°	8.9	15.1	17.8	27.7	13.6
95°	56.5	75.3	73.4	74.0	52.0
100°	95.8	150.7	138.2	121.5	95.8
105°	143.0	204.0	200.2	165.1	142.6
110°	181.4	225.9	253.2	223.5	219.2
115°	215.4	234.4	288.0	290.9	272.4
120°	238.9	249.9	294.9	324.9	323.7
125°	261.4	274.5	291.9	329.4	333.8
130°	287.9	289.8	290.6	326.2	338.2
135°	303.8	310.8	288.7	313.5	315.0
140°	303.2	331.6	307.9	303.5	319.1
145°	339.7	341.3	340.6	317.0	309.7
150°	349.1	366.2	361.3	333.9	326.8
155°	368.0	373.2	387.9	362.7	374.7
160°	380.6	382.6	383.1	369.6	357.7
165°	371.6	371.5	378.0	384.5	370.5
170°	391.2	385.9	361.6	368.6	369.3
175°	402.7	384.4	375.0	375.6	399.8
180°	407.8	407.8	407.8	407.8	407.8

(END OF REPORT)