

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: 89255

Luminaire Tested: **E2-SH-2T8-DL-5**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 89255
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: E2-SH-2T8-DL-5
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

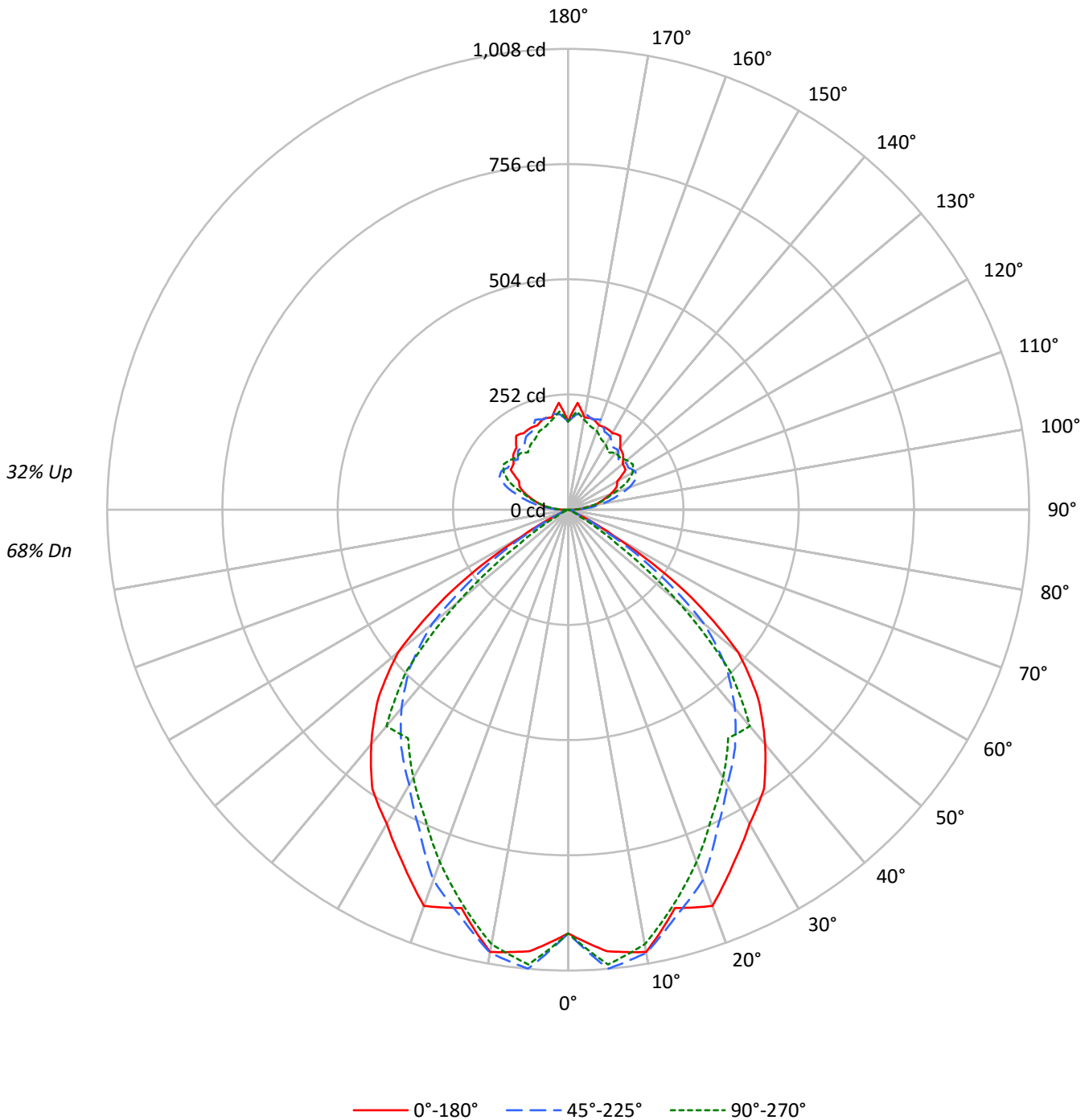
Lumens per Lamp: 2900 (2 lamps)
Luminaire Lumens: 2593.6 lumens
Efficiency: 44.7%
Efficacy: 33.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.57' x L: 3.98' x H: 0.33')
CIE Type: Semi-Direct

Input Watts (W): 78
Input Voltage (V): NR
Input Current (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	50	50	50	50	47	47	47	47	42	42	42	37	37	37	32	32	32	30
1	46	45	43	42	44	42	41	40	38	37	36	34	33	33	30	30	29	27
2	43	40	38	36	41	38	36	34	34	33	31	31	30	29	28	27	26	24
3	40	36	33	31	38	34	32	30	31	29	27	28	26	25	25	24	23	22
4	37	32	29	27	35	31	28	26	28	26	24	25	24	22	23	22	20	19
5	34	29	26	23	32	28	25	23	25	23	21	23	21	20	21	19	18	17
6	32	27	23	21	30	25	22	20	23	21	19	21	19	18	19	18	16	15
7	29	24	21	19	28	23	20	18	21	19	17	19	17	16	18	16	15	14
8	27	22	19	17	26	21	18	16	20	17	15	18	16	14	16	15	13	13
9	26	20	17	15	24	20	17	15	18	16	14	17	15	13	15	14	12	11
10	24	19	16	14	23	18	15	13	17	14	13	15	13	12	14	12	11	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4359	4359	4359
5°	4545	4572	4489
10°	4625	4344	4184
15°	4298	3974	3768
20°	4481	3690	3394
25°	4268	3287	3036
30°	4111	2976	2760
35°	4050	2753	2497
40°	3845	2501	2558
45°	3616	2221	2113
50°	3232	1821	1364
55°	2300	1145	574
60°	971	473	141
65°	220	128	39
70°	96	66	17
75°	75	52	7
80°	74	37	3
85°	86	37	11



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	93.1	3.6	1.6
10°-20°	257.1	9.9	4.4
20°-30°	363.6	14.0	6.3
30°-40°	411.6	15.9	7.1
40°-50°	392.0	15.1	6.8
50°-60°	202.9	7.8	3.5
60°-70°	31.0	1.2	0.5
70°-80°	6.1	0.2	0.1
80°-90°	6.4	0.2	0.1
90°-100°	44.8	1.7	0.8
100°-110°	101.0	3.9	1.7
110°-120°	139.3	5.4	2.4
120°-130°	143.8	5.5	2.5
130°-140°	128.2	4.9	2.2
140°-150°	108.9	4.2	1.9
150°-160°	86.7	3.3	1.5
160°-170°	57.5	2.2	1.0
170°-180°	19.6	0.8	0.3
0°-30°	713.8	27.5	12.3
0°-40°	1125.3	43.4	19.4
0°-60°	1720.2	66.3	29.7
0°-90°	1763.7	68.0	30.4
90°-120°	285.1	11.0	4.9
90°-150°	666.1	25.7	11.5
90°-180°	830.0	32.0	14.3
0°-180°	2593.6	100.0	44.7

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	927	927	927	927	927	
5°	970	1040	1008	967	999	92
15°	902	944	918	895	893	262
25°	854	839	771	757	742	395
35°	746	684	636	623	610	463
45°	589	532	490	513	501	450
55°	314	275	233	156	128	274
65°	23	25	23	13	8	42
75°	5	8	8	3	1	6
85°	3	4	4	4	2	3
90°	11	13	12	15	10	9
95°	37	43	43	42	31	34
105°	76	110	107	88	80	82
115°	117	129	166	153	142	113
125°	153	142	161	182	173	131
135°	170	169	155	166	161	130
145°	198	186	168	156	153	120
155°	197	196	188	178	170	91
165°	206	210	205	211	188	58
175°	235	196	209	206	216	21
180°	193	193	193	193	193	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	926.7	926.7	926.7	926.7	926.7
5°	969.6	1040.0	1007.8	967.0	998.6
10°	982.4	976.8	984.1	901.7	965.0
15°	902.2	944.4	917.9	894.6	893.1
20°	922.2	886.0	862.2	812.1	820.3
25°	854.2	839.3	770.9	757.2	742.1
30°	793.3	757.9	695.4	670.2	677.2
35°	746.4	684.5	635.9	622.9	610.3
40°	669.9	612.9	566.7	585.2	617.9
45°	588.8	532.5	489.5	513.2	500.7
50°	485.4	435.4	387.2	344.2	314.3
55°	313.8	274.6	232.7	156.4	127.5
60°	118.1	107.9	90.8	47.7	29.9
65°	23.3	24.9	23.0	12.7	7.8
70°	8.6	10.5	11.0	6.1	3.2
75°	5.4	7.6	7.8	3.2	1.3
80°	4.0	5.2	5.0	2.0	0.5
85°	3.1	3.9	4.3	3.8	1.6
90°	11.3	13.1	12.0	14.7	9.6
95°	36.9	42.9	43.4	41.7	30.9
100°	59.0	83.4	76.3	68.1	54.5
105°	76.2	109.5	107.3	87.9	79.6
110°	97.8	117.8	141.6	119.1	104.5
115°	116.9	129.3	166.3	152.7	141.6
120°	124.1	135.4	168.7	165.6	162.6
125°	153.2	142.2	160.6	181.8	172.8
130°	155.7	155.5	163.2	177.6	167.7
135°	169.9	168.7	155.4	166.0	160.6
140°	176.5	185.9	170.0	156.7	161.8
145°	198.0	186.4	167.9	156.1	152.9
150°	193.8	190.9	184.5	169.5	164.5
155°	196.9	196.5	188.3	178.3	170.5
160°	196.7	201.6	209.5	185.6	183.1
165°	206.5	209.7	204.6	211.2	188.5
170°	204.9	192.7	213.2	210.4	199.8
175°	234.7	196.3	209.3	205.5	215.6
180°	192.7	192.7	192.7	192.7	192.7

(END OF REPORT)