

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: 89184

Luminaire Tested: **E2-SH-2T8-DL-3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 89184  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: E2-SH-2T8-DL-3  
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**

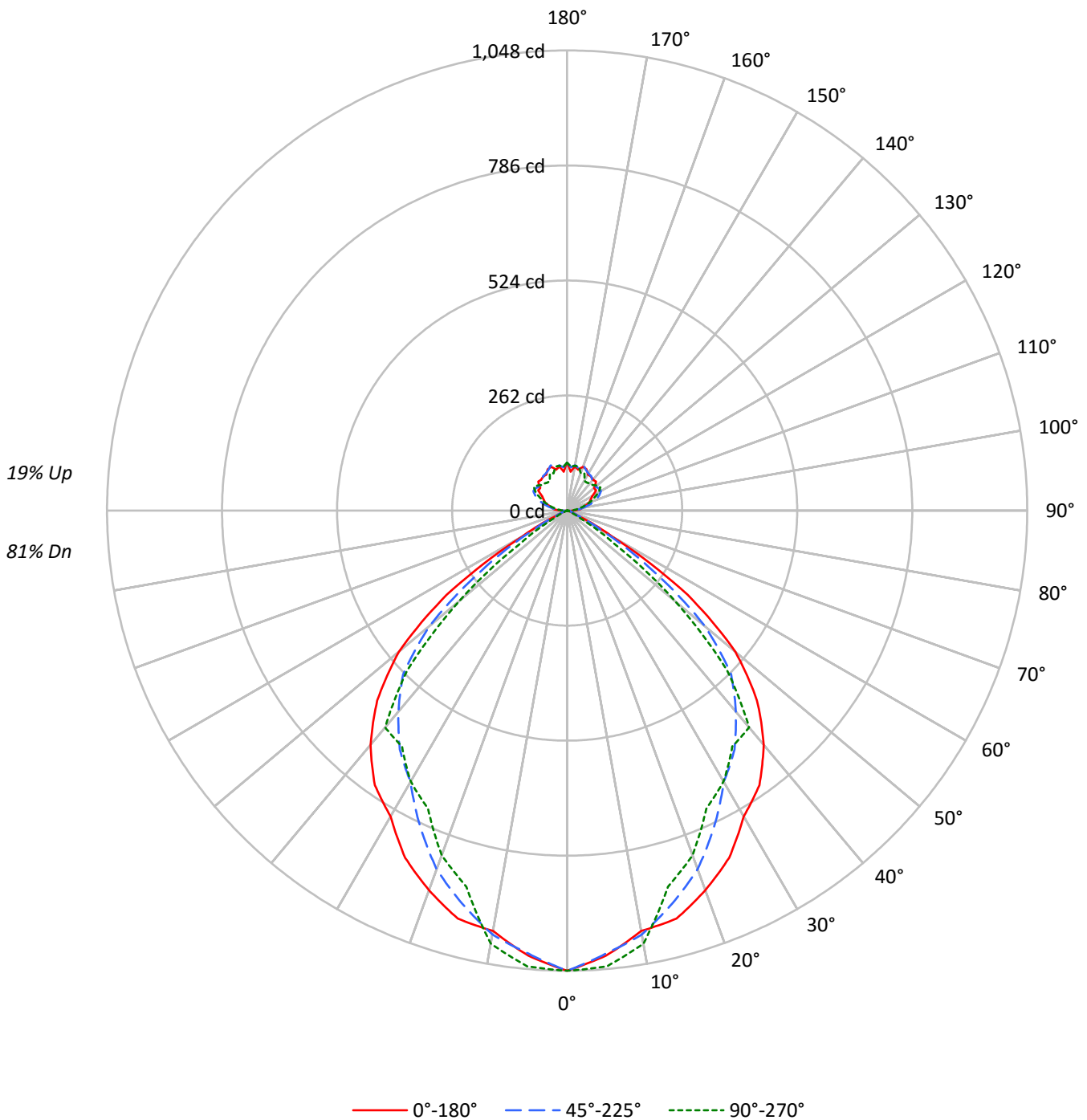
Lumens per Lamp: 2900 (2 lamps)  
Luminaire Lumens: 2251.3 lumens  
Efficiency: 38.8%  
Efficacy: 28.9 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.01 / 1.2  
Luminous Opening: Rectangular w/ Sides (W: 0.57' x L: 3.98' x H: 0.33')  
CIE Type: Semi-Direct

Input Watts (W): 78  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	44	44	44	44	43	43	43	43	39	39	39		36	36	36		33	33	33	31
1	42	40	39	38	40	39	37	36	36	35	34		33	32	32		30	30	29	28
2	39	36	34	32	37	35	33	31	32	31	30		30	29	28		28	27	26	25
3	36	33	30	28	34	31	29	27	29	27	26		27	26	25		25	24	23	22
4	33	29	27	24	32	28	26	24	27	24	23		25	23	22		23	22	21	20
5	31	27	24	22	29	26	23	21	24	22	20		23	21	19		21	20	19	18
6	29	24	21	19	27	23	21	19	22	20	18		21	19	17		20	18	17	16
7	27	22	19	17	26	21	19	17	20	18	16		19	17	16		18	16	15	14
8	25	20	17	15	24	20	17	15	19	16	15		18	16	14		17	15	14	13
9	23	19	16	14	22	18	16	14	17	15	13		16	14	13		15	14	12	12
10	22	17	15	13	21	17	14	13	16	14	12		15	13	12		14	13	11	11

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	4929	4929	4929
5°	4770	4595	4684
10°	4577	4327	4342
15°	4583	4009	3740
20°	4471	3719	3456
25°	4360	3381	3066
30°	4168	3053	2904
35°	4142	2876	2683
40°	3998	2637	2669
45°	3755	2396	2173
50°	3327	1927	1394
55°	2456	1169	578
60°	969	478	145
65°	241	136	39
70°	107	70	16
75°	76	53	9
80°	75	38	3
85°	91	33	11



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	96.0	4.3	1.7
10°-20°	262.1	11.6	4.5
20°-30°	372.0	16.5	6.4
30°-40°	428.2	19.0	7.4
40°-50°	408.7	18.2	7.0
50°-60°	210.1	9.3	3.6
60°-70°	31.9	1.4	0.6
70°-80°	6.2	0.3	0.1
80°-90°	5.4	0.2	0.1
90°-100°	25.3	1.1	0.4
100°-110°	50.7	2.3	0.9
110°-120°	70.1	3.1	1.2
120°-130°	74.5	3.3	1.3
130°-140°	67.3	3.0	1.2
140°-150°	57.8	2.6	1.0
150°-160°	46.0	2.0	0.8
160°-170°	29.3	1.3	0.5
170°-180°	9.7	0.4	0.2
0°-30°	730.1	32.4	12.6
0°-40°	1158.3	51.5	20.0
0°-60°	1777.1	78.9	30.6
0°-90°	1820.6	80.9	31.4
90°-120°	146.1	6.5	2.5
90°-150°	345.7	15.4	6.0
90°-180°	431.0	19.1	7.4
0°-180°	2251.3	100.0	38.8

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1048	1048	1048	1048	1048	
5°	1018	1028	1013	1004	1042	96
15°	962	969	926	904	887	270
25°	873	848	793	774	749	400
35°	763	700	664	661	656	474
45°	612	557	528	526	515	467
55°	335	288	238	162	128	286
65°	26	25	24	13	8	44
75°	6	7	8	4	2	7
85°	3	4	4	3	2	4
90°	13	10	9	8	7	8
95°	29	28	24	20	17	23
105°	42	50	53	47	40	46
115°	59	65	80	79	67	59
125°	80	70	88	95	92	69
135°	93	85	85	93	82	69
145°	95	102	95	89	78	59
155°	104	104	102	97	93	47
165°	96	107	100	100	103	28
175°	88	92	99	97	100	9
180°	109	109	109	109	109	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1047.9	1047.9	1047.9	1047.9	1047.9
5°	1017.5	1027.6	1012.9	1004.5	1041.9
10°	972.2	973.4	980.3	960.2	1001.3
15°	962.1	969.2	926.0	904.5	886.6
20°	920.1	911.9	869.1	848.4	835.2
25°	872.7	847.9	793.0	774.5	749.4
30°	804.3	768.6	713.4	711.3	712.4
35°	763.4	700.4	664.4	661.0	655.8
40°	696.5	632.4	597.5	611.6	644.7
45°	611.5	557.4	528.2	525.8	514.9
50°	499.8	445.6	409.6	354.6	321.4
55°	335.1	288.4	237.5	162.5	128.4
60°	117.9	111.9	91.8	48.2	30.7
65°	25.5	25.2	24.5	13.1	7.9
70°	9.6	11.0	11.6	6.4	3.0
75°	5.5	7.2	8.0	3.6	1.6
80°	4.1	5.3	5.1	1.9	0.5
85°	3.3	3.7	3.9	3.1	1.5
90°	13.2	10.4	9.0	8.1	7.3
95°	28.6	28.0	24.1	20.1	16.6
100°	34.5	40.4	36.4	36.1	27.7
105°	42.4	49.9	53.1	47.3	39.5
110°	53.5	57.5	68.0	62.7	54.4
115°	59.0	64.8	79.7	79.4	66.8
120°	65.7	66.3	88.8	86.3	82.5
125°	80.4	70.4	88.0	94.8	92.2
130°	79.8	76.7	84.6	89.2	88.7
135°	93.1	84.9	85.4	92.9	82.2
140°	91.7	92.9	89.2	85.8	80.4
145°	94.7	101.9	95.4	88.7	77.8
150°	94.7	100.3	97.4	92.3	77.9
155°	104.2	103.8	101.5	96.6	93.0
160°	105.9	106.1	109.4	102.0	90.0
165°	96.3	106.8	99.8	100.0	102.9
170°	101.7	107.3	104.7	111.9	103.9
175°	88.5	91.7	98.7	97.0	99.7
180°	109.0	109.0	109.0	109.0	109.0

(END OF REPORT)