

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: 89186

Luminaire Tested: **E2-SH-2T8-DL-1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 89186  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: E2-SH-2T8-DL-1  
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**

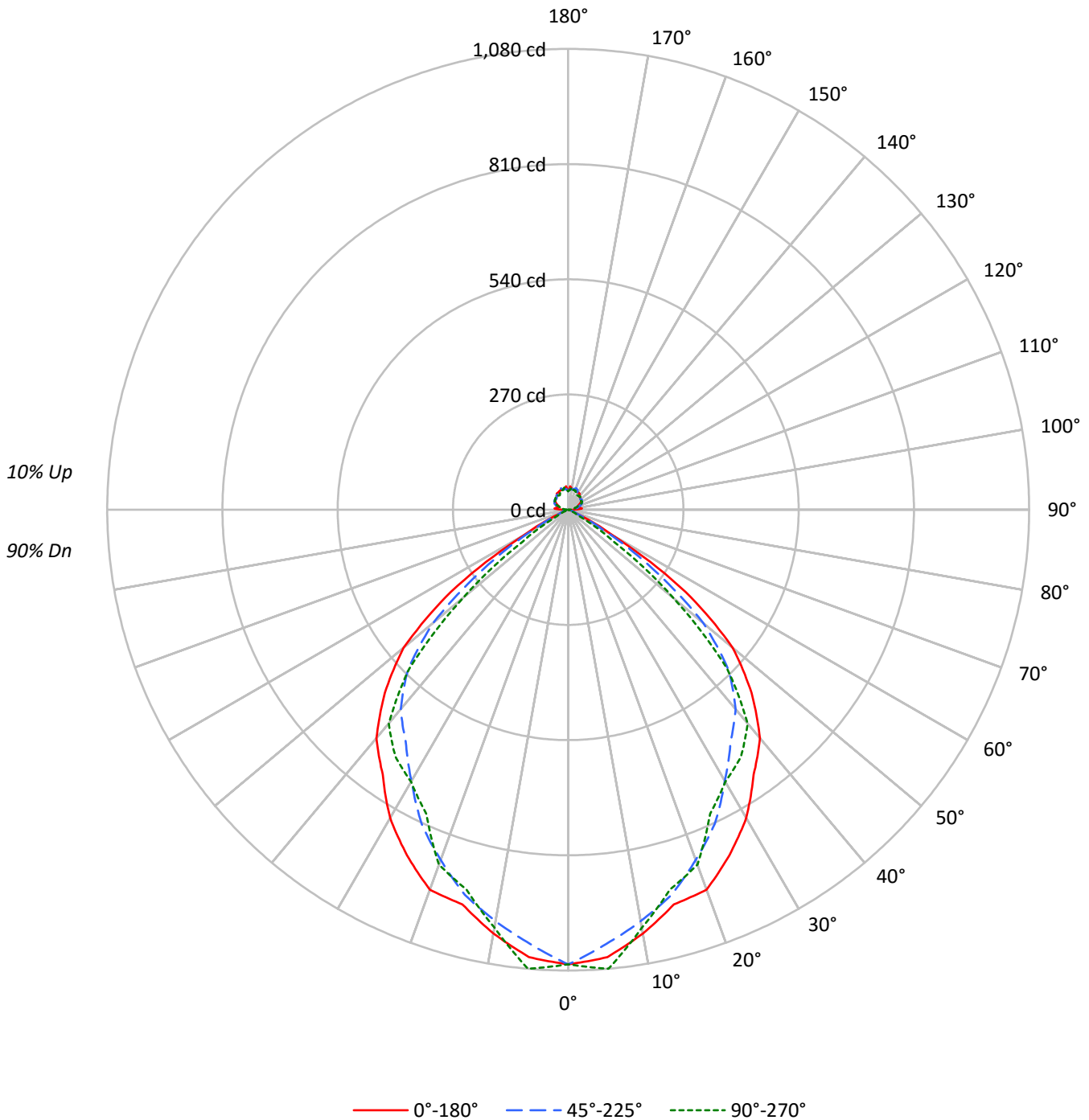
Lumens per Lamp: 2900 (2 lamps)  
Luminaire Lumens: 2058.6 lumens  
Efficiency: 35.5%  
Efficacy: 26.4 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.04 / 1.21  
Luminous Opening: Rectangular w/ Sides (W: 0.57' x L: 3.98' x H: 0.33')  
CIE Type: Semi-Direct

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	41	41	41	41	40	40	40	40	37	37	37	35	35	35	33	33	33	32
1	39	38	36	35	38	36	35	35	34	34	33	32	32	31	31	30	30	29
2	36	34	32	30	35	33	31	30	31	30	29	30	28	27	28	27	26	26
3	34	31	28	26	32	30	28	26	28	27	25	27	25	24	26	24	23	23
4	31	28	25	23	30	27	25	23	26	24	22	24	23	22	23	22	21	20
5	29	25	22	20	28	24	22	20	23	21	20	22	21	19	21	20	19	18
6	27	23	20	18	26	22	20	18	21	19	18	21	19	17	20	18	17	16
7	25	21	18	16	24	20	18	16	20	17	16	19	17	15	18	16	15	14
8	23	19	17	15	23	19	16	15	18	16	14	17	15	14	17	15	14	13
9	22	18	15	13	21	17	15	13	17	15	13	16	14	13	16	14	13	12
10	21	16	14	12	20	16	14	12	16	13	12	15	13	12	14	13	11	11

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

	0°	45°	90°
0°	5012	5012	5012
5°	4934	4635	4855
10°	4747	4322	4313
15°	4561	4046	3888
20°	4604	3738	3663
25°	4464	3464	3217
30°	4324	3142	3001
35°	4111	2873	2889
40°	4012	2693	2707
45°	3730	2410	2223
50°	3349	1941	1397
55°	2464	1191	585
60°	992	488	154
65°	247	135	40
70°	105	71	19
75°	69	52	9
80°	74	36	4
85°	97	27	7



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	97.2	4.7	1.7
10°-20°	266.4	12.9	4.6
20°-30°	379.5	18.4	6.5
30°-40°	438.3	21.3	7.6
40°-50°	412.9	20.1	7.1
50°-60°	213.0	10.3	3.7
60°-70°	32.7	1.6	0.6
70°-80°	6.3	0.3	0.1
80°-90°	4.5	0.2	0.1
90°-100°	17.5	0.8	0.3
100°-110°	25.6	1.2	0.4
110°-120°	32.1	1.6	0.6
120°-130°	33.8	1.6	0.6
130°-140°	30.9	1.5	0.5
140°-150°	27.3	1.3	0.5
150°-160°	21.9	1.1	0.4
160°-170°	14.1	0.7	0.2
170°-180°	4.7	0.2	0.1
0°-30°	743.1	36.1	12.8
0°-40°	1181.4	57.4	20.4
0°-60°	1807.4	87.8	31.2
0°-90°	1850.8	89.9	31.9
90°-120°	75.2	3.7	1.3
90°-150°	167.1	8.1	2.9
90°-180°	208.0	10.1	3.6
0°-180°	2058.6	100.0	35.5

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1066	1066	1066	1066	1066	
5°	1053	1013	1022	984	1080	99
15°	958	981	934	914	922	274
25°	894	845	812	776	786	412
35°	758	714	664	685	706	477
45°	607	562	531	532	527	466
55°	336	298	242	163	130	288
65°	26	26	24	13	8	45
75°	5	8	8	4	2	6
85°	4	4	3	2	1	4
90°	14	10	7	5	4	9
95°	32	25	16	10	8	20
105°	25	30	25	20	17	27
115°	29	31	36	34	34	29
125°	36	33	40	42	37	33
135°	39	40	38	39	41	31
145°	46	46	44	40	41	28
155°	48	49	51	42	44	22
165°	49	48	50	53	47	14
175°	55	56	49	48	47	5
180°	43	43	43	43	43	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1065.5	1065.5	1065.5	1065.5	1065.5
5°	1052.6	1012.6	1021.6	984.5	1079.9
10°	1008.3	1021.0	979.2	993.0	994.6
15°	957.5	981.4	934.5	914.1	921.6
20°	947.5	927.1	873.5	854.4	885.2
25°	893.5	844.8	812.5	776.4	786.4
30°	834.3	801.9	734.2	727.0	736.2
35°	757.6	713.7	663.6	684.9	706.1
40°	698.9	636.9	610.2	634.2	653.9
45°	607.4	562.5	531.2	532.0	526.7
50°	503.0	451.7	412.7	351.7	321.9
55°	336.2	298.5	241.9	163.2	130.0
60°	120.6	115.2	93.7	51.2	32.7
65°	26.1	25.9	24.2	12.8	8.0
70°	9.4	11.2	11.8	6.6	3.6
75°	5.0	7.7	7.8	3.7	1.6
80°	4.0	5.2	4.9	1.9	0.6
85°	3.5	3.6	3.2	1.9	1.0
90°	13.8	9.6	6.9	4.7	3.5
95°	32.3	25.3	15.5	10.5	8.1
100°	26.7	28.4	19.9	15.3	14.0
105°	25.0	29.8	24.9	20.2	17.3
110°	24.0	28.7	30.5	27.6	25.1
115°	28.6	31.0	35.7	33.9	33.9
120°	34.1	30.7	37.2	39.4	37.1
125°	36.4	32.9	39.5	42.4	36.8
130°	38.5	39.3	37.8	41.7	39.4
135°	38.7	39.6	38.2	38.8	41.3
140°	42.2	41.6	42.2	42.2	40.8
145°	46.3	46.3	44.1	40.1	40.6
150°	46.2	49.8	43.6	43.6	39.1
155°	48.3	49.0	51.4	42.4	44.2
160°	49.3	50.1	53.5	48.0	48.2
165°	49.4	48.1	49.9	53.4	47.2
170°	49.3	48.4	47.8	47.2	52.6
175°	55.2	55.7	48.9	48.1	46.9
180°	43.1	43.1	43.1	43.1	43.1

(END OF REPORT)