

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: 89185

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 89185
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: E2-SH-2T8-DL-2
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

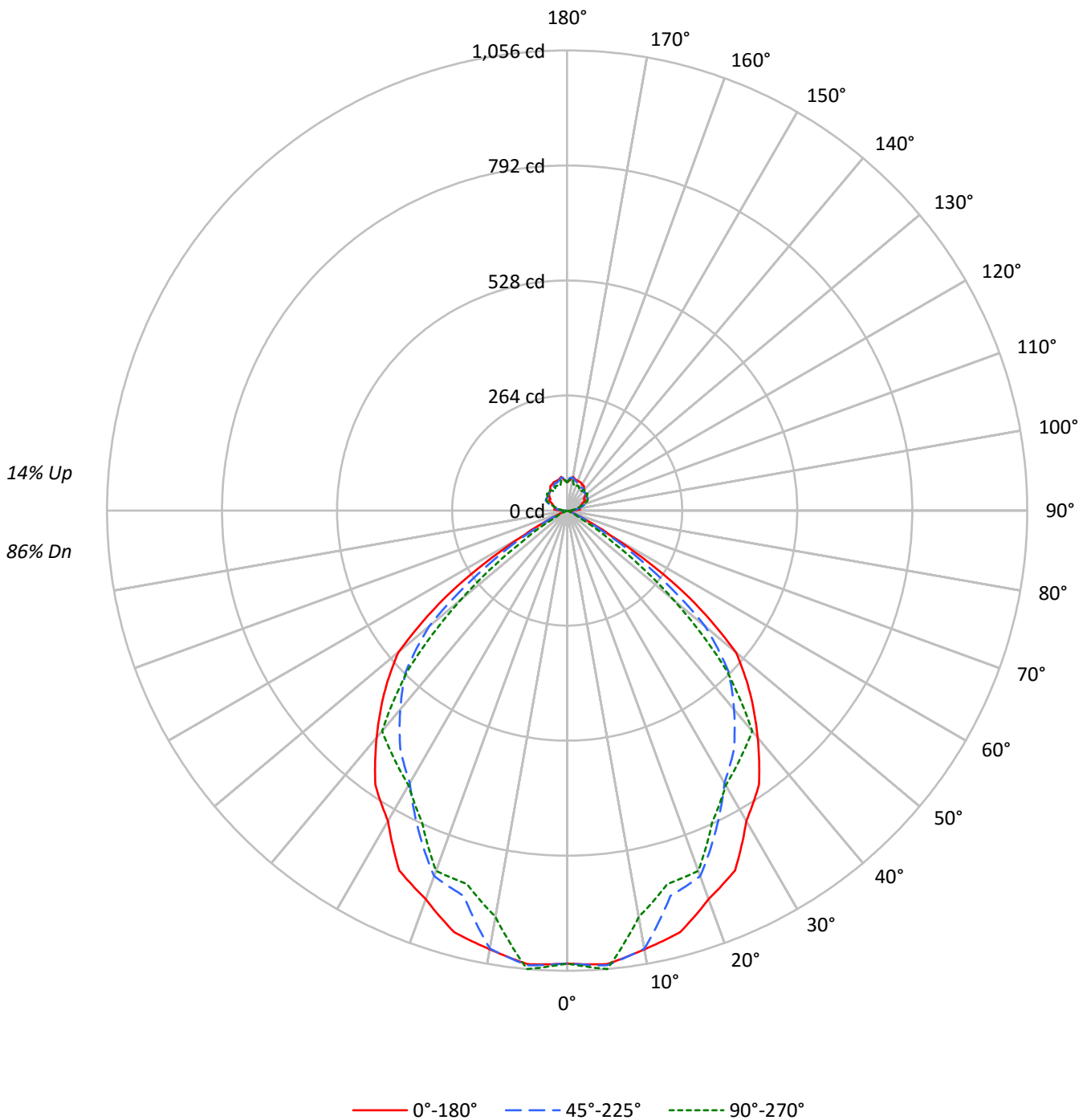
Lumens per Lamp: 2900 (2 lamps)
Luminaire Lumens: 2125.5 lumens
Efficiency: 36.6%
Efficacy: 27.3 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.06 / 1.21
Luminous Opening: Rectangular w/ Sides (W: 0.57' x L: 3.98' x H: 0.33')
CIE Type: Semi-Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4889	4889	4889
5°	4898	4752	4748
10°	4813	4506	4107
15°	4772	3964	3743
20°	4610	3821	3641
25°	4554	3446	3225
30°	4261	3089	2968
35°	4166	2890	2836
40°	3903	2629	2734
45°	3648	2376	2172
50°	3364	1946	1384
55°	2395	1159	597
60°	991	469	159
65°	240	140	40
70°	96	70	17
75°	75	51	8
80°	75	36	4
85°	94	30	9



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	97.2	4.6	1.7
10°-20°	264.5	12.4	4.6
20°-30°	377.9	17.8	6.5
30°-40°	434.2	20.4	7.5
40°-50°	409.3	19.3	7.1
50°-60°	210.7	9.9	3.6
60°-70°	32.2	1.5	0.6
70°-80°	6.2	0.3	0.1
80°-90°	4.8	0.2	0.1
90°-100°	19.5	0.9	0.3
100°-110°	34.1	1.6	0.6
110°-120°	46.5	2.2	0.8
120°-130°	48.2	2.3	0.8
130°-140°	44.3	2.1	0.8
140°-150°	38.4	1.8	0.7
150°-160°	30.4	1.4	0.5
160°-170°	20.1	0.9	0.3
170°-180°	6.9	0.3	0.1
0°-30°	739.7	34.8	12.8
0°-40°	1173.9	55.2	20.2
0°-60°	1793.9	84.4	30.9
0°-90°	1837.2	86.4	31.7
90°-120°	100.0	4.7	1.7
90°-150°	230.9	10.9	4.0
90°-180°	288.0	13.5	5.0
0°-180°	2125.5	100.0	36.6

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1039	1039	1039	1039	1039	
5°	1045	1028	1048	1004	1056	99
15°	1002	972	916	908	887	281
25°	912	843	808	778	788	415
35°	768	705	668	671	693	476
45°	594	554	524	536	515	458
55°	327	292	235	164	133	284
65°	25	26	25	13	8	44
75°	5	8	8	4	1	6
85°	3	4	4	2	1	4
90°	13	10	8	6	4	8
95°	30	25	19	14	11	20
105°	31	35	34	31	26	32
115°	39	42	54	50	50	39
125°	47	47	54	62	55	44
135°	58	54	57	59	56	44
145°	68	64	63	60	54	41
155°	72	69	68	62	62	33
165°	73	76	71	72	59	21
175°	70	73	76	73	71	7
180°	65	65	65	65	65	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1039.4	1039.4	1039.4	1039.4	1039.4
5°	1044.9	1027.7	1047.5	1004.4	1056.3
10°	1022.3	999.4	1020.9	968.8	947.1
15°	1001.8	971.5	915.6	908.5	887.3
20°	948.8	900.8	892.9	839.4	879.8
25°	911.5	842.6	808.2	778.0	788.2
30°	822.2	781.2	721.8	730.0	728.1
35°	767.7	704.6	667.5	670.7	693.2
40°	680.0	636.9	595.7	632.0	660.6
45°	594.0	554.2	523.7	535.7	514.6
50°	505.3	451.2	413.7	347.9	319.1
55°	326.7	292.4	235.4	164.0	132.8
60°	120.5	112.3	90.1	50.0	33.8
65°	25.4	25.5	25.1	13.2	8.0
70°	8.6	11.2	11.6	6.4	3.1
75°	5.4	7.6	7.7	3.6	1.4
80°	4.1	5.6	4.9	2.1	0.6
85°	3.4	3.5	3.5	2.4	1.3
90°	12.9	9.8	7.6	6.2	4.0
95°	29.8	24.9	18.8	13.9	11.3
100°	26.6	29.5	23.9	21.2	18.7
105°	30.6	34.8	34.4	31.4	26.4
110°	33.5	38.6	43.9	43.3	37.1
115°	38.6	42.5	54.0	50.5	50.2
120°	47.6	44.3	55.1	54.7	55.7
125°	46.9	47.0	54.0	61.9	54.6
130°	54.4	50.2	57.6	62.2	60.5
135°	57.9	53.5	57.4	59.2	56.0
140°	59.5	58.1	57.1	58.0	61.4
145°	67.8	63.5	62.9	59.8	54.5
150°	69.1	66.3	61.7	60.0	56.1
155°	72.0	69.2	68.4	61.6	62.1
160°	72.0	72.7	68.3	62.7	61.4
165°	73.4	76.1	71.3	71.7	59.0
170°	78.6	74.7	76.6	69.7	72.7
175°	69.7	72.6	75.9	73.4	71.4
180°	64.7	64.7	64.7	64.7	64.7

(END OF REPORT)