

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: 89183

Luminaire Tested: **E2-SH-2T8-DL-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 89183
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: E2-SH-2T8-DL-4
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

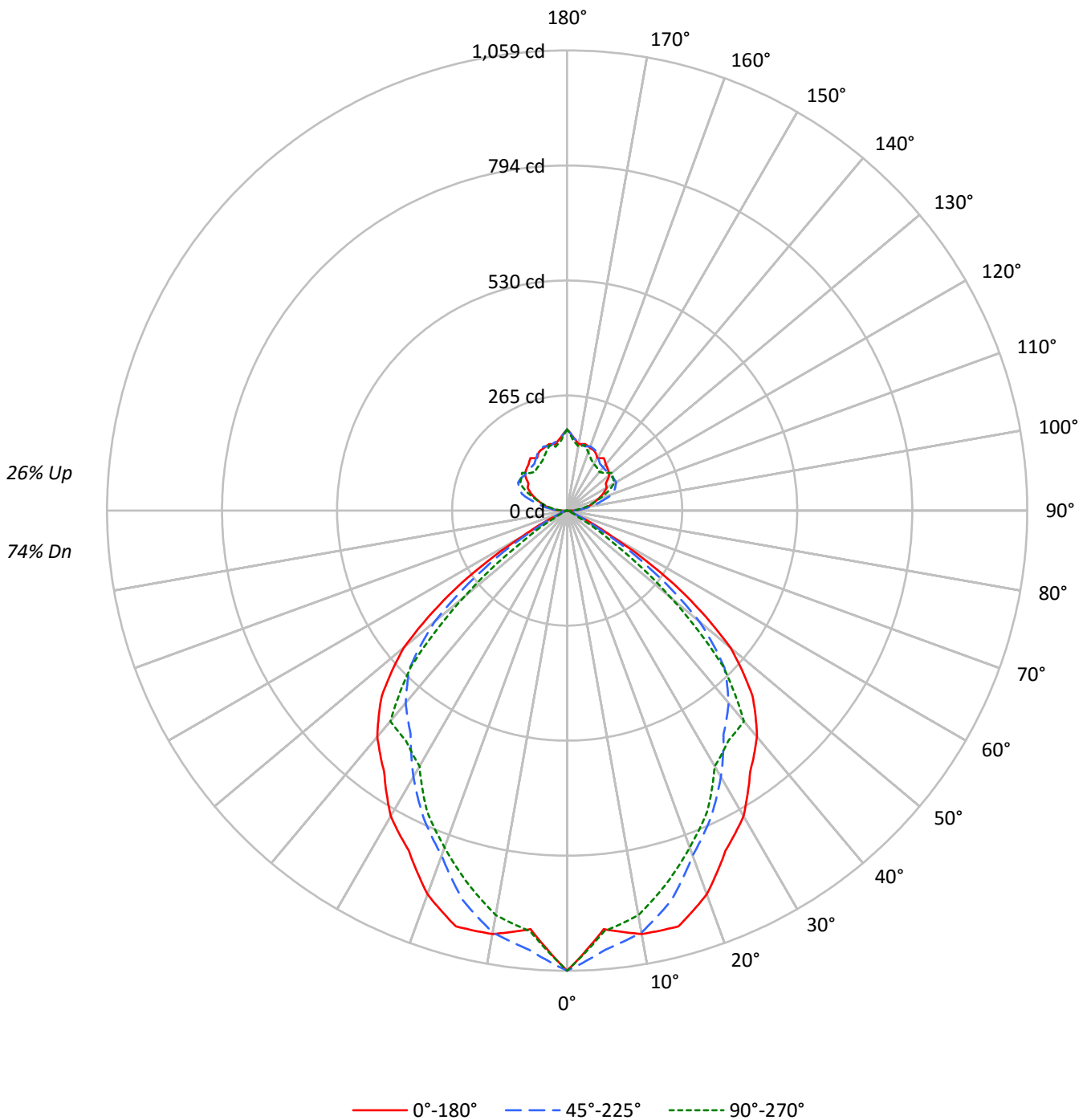
Lumens per Lamp: 2900 (2 lamps)
Luminaire Lumens: 2433.3 lumens
Efficiency: 42.0%
Efficacy: 31.2 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1 / 1.18
Luminous Opening: Rectangular w/ Sides (W: 0.57' x L: 3.98' x H: 0.33')
CIE Type: Semi-Direct

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									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0													
RCR																																					
0	47	47	47	47	45	45	45	45	40	40	40	36	36	36	33	33	33	33	33	33	33	33	33	31													
1	44	43	41	40	42	41	39	38	37	36	35	33	33	32	30	30	29	28	28	27	26	25	25	28													
2	41	38	36	34	39	37	35	33	33	32	31	30	29	28	28	27	26	25	25	24	23	22	22	25													
3	38	34	32	30	36	33	31	29	30	28	27	28	26	25	25	24	23	22	22	21	20	19	18	22													
4	35	31	28	26	33	30	27	25	27	25	23	25	23	22	23	22	21	20	19	18	17	16	15	19													
5	33	28	25	23	31	27	24	22	25	23	21	23	21	20	21	20	18	17	16	15	14	13	12	17													
6	30	25	22	20	29	25	22	20	23	20	19	21	19	18	19	18	17	16	15	14	13	12	11	16													
7	28	23	20	18	27	22	20	17	21	18	17	19	17	16	18	16	15	14	13	12	11	10	9	14													
8	26	21	18	16	25	21	18	16	19	17	15	18	16	14	17	15	14	13	12	11	10	9	8	13													
9	25	20	17	15	23	19	16	14	18	15	14	16	14	13	15	14	12	11	10	9	8	7	6	12													
10	23	18	15	13	22	18	15	13	16	14	12	15	13	12	14	13	11	10	9	8	7	6	5	11													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4982	4982	4982
5°	4533	4601	4370
10°	4659	4351	4099
15°	4718	4018	3742
20°	4566	3616	3413
25°	4312	3330	3124
30°	4209	3028	2770
35°	3984	2718	2646
40°	3901	2551	2619
45°	3707	2323	2147
50°	3266	1874	1353
55°	2317	1146	575
60°	980	449	144
65°	217	135	38
70°	104	69	17
75°	72	52	9
80°	70	36	4
85°	88	36	10



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	95.0	3.9	1.6
10°-20°	261.3	10.7	4.5
20°-30°	369.8	15.2	6.4
30°-40°	418.6	17.2	7.2
40°-50°	399.0	16.4	6.9
50°-60°	205.6	8.5	3.5
60°-70°	31.1	1.3	0.5
70°-80°	6.0	0.2	0.1
80°-90°	5.8	0.2	0.1
90°-100°	34.9	1.4	0.6
100°-110°	76.5	3.1	1.3
110°-120°	106.8	4.4	1.8
120°-130°	112.2	4.6	1.9
130°-140°	100.0	4.1	1.7
140°-150°	83.9	3.4	1.4
150°-160°	67.3	2.8	1.2
160°-170°	44.0	1.8	0.8
170°-180°	15.5	0.6	0.3
0°-30°	726.2	29.8	12.5
0°-40°	1144.8	47.0	19.7
0°-60°	1749.4	71.9	30.2
0°-90°	1792.4	73.7	30.9
90°-120°	218.1	9.0	3.8
90°-150°	514.2	21.1	8.9
90°-180°	641.0	26.3	11.1
0°-180°	2433.3	100.0	42.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1059	1059	1059	1059	1059	
5°	967	981	1014	1000	972	94
15°	990	952	928	890	887	277
25°	863	846	781	779	764	401
35°	734	702	628	641	647	464
45°	604	534	512	518	509	459
55°	316	283	233	162	128	276
65°	23	25	24	12	8	43
75°	5	7	8	3	2	6
85°	3	4	4	4	1	3
90°	12	12	11	11	8	8
95°	32	36	33	32	23	28
105°	60	81	80	69	58	63
115°	91	98	122	118	104	89
125°	109	114	130	136	129	100
135°	133	130	128	128	122	103
145°	147	147	131	120	120	90
155°	151	152	153	141	130	69
165°	159	163	153	153	156	44
175°	169	153	167	152	162	16
180°	187	187	187	187	187	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1059.0	1059.0	1059.0	1059.0	1059.0
5°	966.9	981.4	1014.2	1000.1	972.1
10°	989.6	1003.0	985.8	962.6	945.4
15°	990.5	952.2	928.2	889.7	887.1
20°	939.7	927.7	845.0	829.3	824.9
25°	863.1	845.5	781.0	779.3	763.6
30°	812.1	783.1	707.5	677.9	679.6
35°	734.2	701.6	627.8	641.1	646.6
40°	679.6	616.6	578.1	603.1	632.8
45°	603.6	533.8	512.0	518.0	508.7
50°	490.5	443.3	398.3	344.4	311.8
55°	316.1	283.2	232.9	162.1	127.8
60°	119.2	109.7	86.3	47.9	30.6
65°	23.0	25.0	24.2	12.4	7.6
70°	9.3	11.0	11.5	6.3	3.2
75°	5.2	6.9	7.8	3.3	1.5
80°	3.8	5.0	4.8	1.9	0.6
85°	3.2	3.5	4.2	3.6	1.4
90°	12.4	11.6	11.1	11.4	8.4
95°	32.2	35.9	32.6	32.0	22.6
100°	46.1	61.5	56.4	51.3	38.4
105°	59.5	81.2	80.2	69.1	57.7
110°	74.1	89.6	110.2	93.1	77.8
115°	91.0	97.5	121.5	117.7	103.5
120°	104.9	106.0	130.3	135.5	124.7
125°	108.6	114.3	130.0	136.4	129.1
130°	126.5	120.1	127.0	137.6	135.1
135°	133.3	130.5	128.0	128.1	121.9
140°	138.5	138.1	129.3	127.9	115.8
145°	147.4	146.8	131.4	119.5	120.1
150°	139.1	150.2	141.4	131.5	123.5
155°	150.7	152.5	153.2	140.9	130.1
160°	153.9	157.4	157.0	139.3	142.3
165°	158.6	163.3	153.3	152.7	155.9
170°	154.9	152.6	159.7	166.9	149.3
175°	168.9	152.9	167.0	152.0	161.5
180°	187.0	187.0	187.0	187.0	187.0

(END OF REPORT)