

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: 26346

Luminaire Tested: **I2-WB-1T8-1C-UNV-04**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 26346
Test Lab: LIGHTING SCIENCES, INC.
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: I2-WB-1T8-1C-UNV-04
Description: WITH WHITE INTERIOR AND 28 CELL SEMI-SPECULAR PARABOLIC LOUVER

Light Source: ONE SYLVANIA 32 WATT T8 LAMP
FO32/835/ECO. LUMEN RATING = 2950 LMS.

Ballast/Driver: -

Summary

Lumens per Lamp: 2950 (1 lamp)
Luminaire Lumens: 2762.4 lumens
Efficiency: 93.6%
Efficacy: 78.9 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.67 / 1.53
Luminous Opening: Rectangular (W 0.31' x L: 3.67' x H: 0')
CIE Type: Semi-Indirect

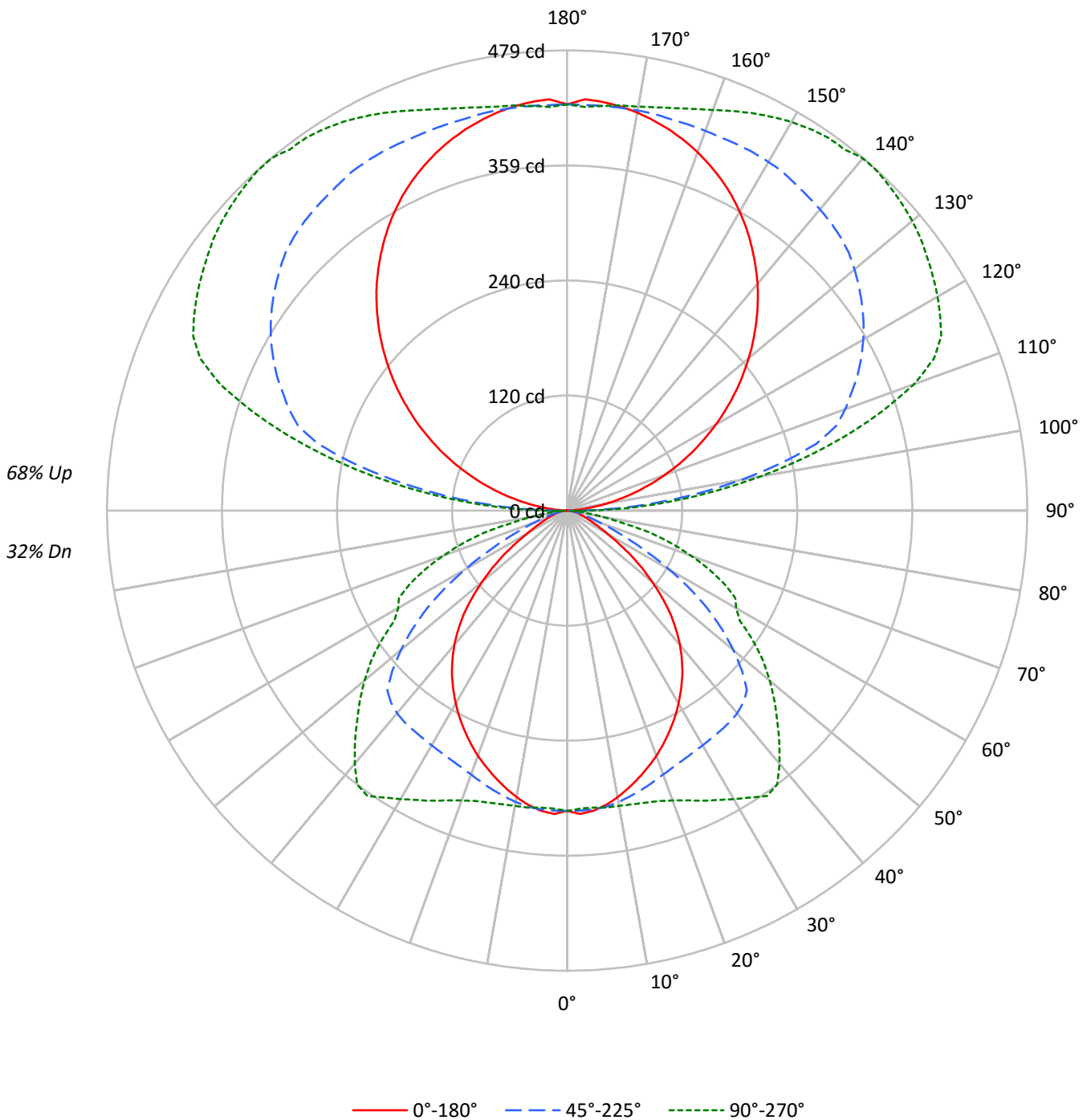
Input Watts (W): 35
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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									70									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	96	96	96	96	87	87	87	87	69	69	69	52	52	52	37	37	37	30					30															
1	88	84	81	78	79	76	73	71	61	59	57	46	45	44	33	33	32	26					26															
2	80	74	68	64	72	67	62	58	53	50	47	41	39	37	30	28	27	22					22															
3	73	65	58	53	66	59	53	49	47	43	40	36	34	31	26	25	23	19					19															
4	67	57	50	45	60	52	46	41	42	37	34	32	29	27	23	21	20	16					16															
5	61	51	44	38	55	46	40	35	37	33	29	29	26	23	21	19	17	14					14															
6	56	45	38	33	51	41	35	30	33	29	25	26	23	20	19	17	15	12					12															
7	52	41	34	29	47	37	31	26	30	25	22	23	20	18	17	15	13	11					11															
8	48	37	30	25	43	34	27	23	27	23	19	21	18	16	16	14	12	10					10															
9	45	34	27	22	40	31	25	21	25	20	17	20	16	14	14	12	11	9					9															
10	42	31	24	20	37	28	22	18	23	18	15	18	15	12	13	11	10	8					8															

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2958	2958	2958
5°	2978	2965	2947
10°	2910	2960	2998
15°	2822	2945	3082
20°	2735	2944	3233
25°	2638	2988	3479
30°	2533	3083	3788
35°	2414	3224	4188
40°	2256	3401	4247
45°	2031	3540	4138
50°	1703	3322	4051
55°	1326	2949	3896
60°	920	2324	3843
65°	663	1574	4041
70°	531	1007	3798
75°	483	669	3294
80°	441	474	2010
85°	326	380	1096



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	29.7	1.1	1.0
10°-20°	85.2	3.1	2.9
20°-30°	134.2	4.9	4.5
30°-40°	175.9	6.4	6.0
40°-50°	186.9	6.8	6.3
50°-60°	150.2	5.4	5.1
60°-70°	88.3	3.2	3.0
70°-80°	34.5	1.2	1.2
80°-90°	7.5	0.3	0.3
90°-100°	92.1	3.3	3.1
100°-110°	239.5	8.7	8.1
110°-120°	308.9	11.2	10.5
120°-130°	318.9	11.5	10.8
130°-140°	300.8	10.9	10.2
140°-150°	256.6	9.3	8.7
150°-160°	193.7	7.0	6.6
160°-170°	119.4	4.3	4.0
170°-180°	40.4	1.5	1.4
0°-30°	249.0	9.0	8.4
0°-40°	424.9	15.4	14.4
0°-60°	762.0	27.6	25.8
0°-90°	892.3	32.3	30.2
90°-120°	640.4	23.2	21.7
90°-150°	1516.7	54.9	51.4
90°-180°	1870.0	67.7	63.4
0°-180°	2762.4	100.0	93.6

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	313	313	313	313	313	
5°	314	311	312	313	310	30
15°	288	291	301	312	315	81
25°	253	262	286	319	333	116
35°	209	228	279	334	363	130
45°	152	193	265	288	309	116
55°	80	133	179	208	236	72
65°	30	43	70	137	180	31
75°	13	13	18	44	90	14
85°	3	4	4	4	10	4
90°	0	6	14	20	24	1
95°	14	76	93	103	108	17
105°	73	174	268	292	300	77
115°	143	228	334	405	430	142
125°	213	277	375	437	458	190
135°	278	321	402	458	476	215
145°	335	359	415	459	474	210
155°	380	391	420	447	456	175
165°	410	412	421	430	434	116
175°	427	423	423	422	423	41
180°	423	423	423	423	423	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	312.6	312.6	312.6	312.6	312.6
2.5°	316.1	313.4	312.6	312.6	310.5
5°	313.6	311.3	312.2	312.9	310.3
7.5°	309.1	308.1	311.0	313.1	311.8
10°	302.9	303.3	308.1	312.8	312.1
12.5°	295.7	297.6	304.3	312.5	313.1
15°	288.1	291.2	300.7	312.0	314.7
17.5°	280.0	284.5	296.5	311.7	317.0
20°	271.6	277.2	292.4	313.2	321.1
22.5°	262.4	269.7	288.8	315.8	326.5
25°	252.7	261.6	286.2	319.3	333.3
27.5°	242.6	253.8	283.9	323.0	339.6
30°	231.9	245.2	282.2	326.7	346.7
32.5°	220.7	236.7	280.5	330.1	354.1
35°	209.0	228.2	279.1	334.0	362.6
37.5°	196.2	219.7	277.7	337.4	359.2
40°	182.7	211.2	275.4	325.4	343.9
42.5°	167.8	202.3	271.3	307.1	326.9
45°	151.8	192.7	264.6	288.3	309.3
47.5°	134.1	182.4	246.7	269.1	292.5
50°	115.7	169.8	225.7	249.5	275.2
52.5°	98.2	153.3	203.4	229.5	257.3
55°	80.4	132.7	178.8	207.8	236.2
57.5°	63.2	108.4	151.6	184.9	213.1
60°	48.6	82.7	122.8	164.5	203.1
62.5°	37.7	60.0	94.9	152.8	197.4
65°	29.6	43.0	70.3	136.7	180.5
67.5°	23.7	31.4	51.0	113.7	159.6
70°	19.2	23.4	36.4	89.3	137.3
72.5°	15.8	17.6	25.8	65.7	114.1
75°	13.2	13.2	18.3	43.9	90.1
77.5°	10.8	9.6	12.7	26.1	57.3
80°	8.1	6.7	8.7	15.1	36.9
82.5°	5.4	5.1	5.5	8.3	22.0
85°	3.0	3.5	3.5	4.0	10.1
87.5°	1.1	2.5	2.1	1.3	2.5
90°	0.0	6.1	14.3	20.3	23.5
92.5°	3.8	35.7	50.8	59.3	63.6
95°	13.5	75.5	92.9	103.2	107.5
97.5°	26.0	114.7	138.5	149.0	154.1
100°	40.5	142.3	183.6	198.5	203.9
102.5°	56.4	158.4	228.4	245.4	252.3
105°	73.1	174.2	268.1	292.1	299.8
107.5°	90.2	189.0	293.8	334.5	343.6
110°	107.8	202.8	307.9	371.4	384.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	125.4	215.1	320.3	393.3	413.1
115°	143.2	227.7	333.6	404.9	429.6
117.5°	160.8	240.3	345.1	413.1	437.8
120°	178.5	253.0	356.0	421.8	445.3
122.5°	195.8	265.3	365.9	430.1	451.8
125°	213.1	277.2	374.6	437.0	458.0
127.5°	230.2	288.8	382.8	443.9	464.2
130°	246.7	300.0	390.6	449.2	469.0
132.5°	262.9	310.8	397.6	454.1	472.7
135°	278.5	320.7	402.5	458.2	475.8
137.5°	293.7	329.5	406.3	460.3	478.5
140°	308.4	338.7	409.4	460.8	478.8
142.5°	322.0	348.5	412.0	458.8	474.0
145°	335.1	358.7	414.6	459.0	473.8
147.5°	347.7	367.9	417.8	457.4	470.9
150°	359.3	376.0	419.1	455.0	467.1
152.5°	370.2	383.6	420.0	450.8	462.0
155°	380.0	390.9	420.3	446.7	456.4
157.5°	388.8	397.3	420.1	441.5	450.1
160°	397.0	402.7	420.6	437.2	443.7
162.5°	404.1	408.0	421.1	433.1	438.3
165°	410.5	412.4	421.4	429.7	433.7
167.5°	415.9	416.2	422.5	426.5	429.9
170°	420.7	419.3	422.9	424.3	426.9
172.5°	424.3	421.8	423.0	423.4	425.4
175°	426.9	423.4	422.9	421.7	422.7
177.5°	428.5	424.2	422.4	419.9	420.6
180°	422.8	422.8	422.8	422.8	422.8

(END OF REPORT)