

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: 89180

Luminaire Tested: **L2-SH-2T8-DL-7**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 89180
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: L2-SH-2T8-DL-7
Description: CORELITE LOFT 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

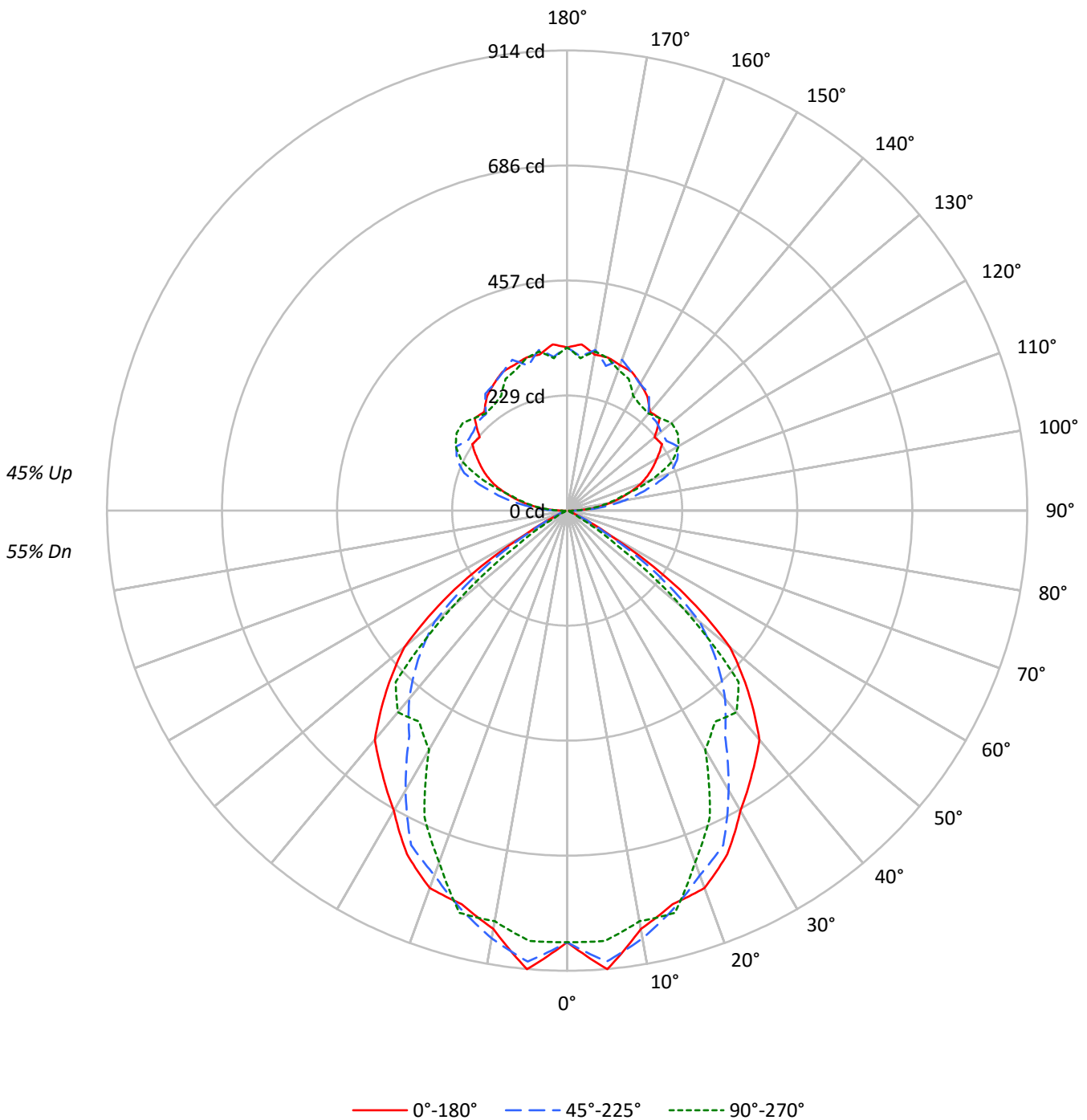
Lumens per Lamp: 2900 (2 lamps)
Luminaire Lumens: 2849.7 lumens
Efficiency: 49.1%
Efficacy: 36.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.04 / 1.2
Luminous Opening: Rectangular w/ Sides (W: 0.57' x L: 3.98' x H: 0.33')
CIE Type: General Diffuse

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									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	53	53	53	53	49	49	49	49	42	42	42	36	36	36	30	30	30	27																				
1	49	48	46	44	46	44	43	42	38	37	36	33	32	31	28	27	27	24																				
2	46	42	40	38	42	40	37	35	34	33	31	30	28	27	25	24	24	22																				
3	42	38	35	32	39	36	33	30	31	29	27	27	25	24	23	22	21	19																				
4	39	34	31	28	36	32	29	26	28	26	24	24	23	21	21	20	19	17																				
5	36	31	27	24	33	29	26	23	25	23	21	22	20	19	19	18	17	15																				
6	33	28	24	21	31	26	23	20	23	21	19	20	18	17	18	16	15	14																				
7	31	25	22	19	29	24	21	18	21	18	17	19	17	15	16	15	13	12																				
8	29	23	19	17	27	22	19	16	19	17	15	17	15	14	15	13	12	11																				
9	27	21	18	15	25	20	17	15	18	15	13	16	14	12	14	12	11	10																				
10	25	19	16	14	23	18	15	13	17	14	12	15	13	11	13	11	10	9																				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4032	4032	4032
5°	4287	4080	3857
10°	3972	3808	3592
15°	3855	3542	3490
20°	3876	3298	3075
25°	3763	3126	2745
30°	3567	2746	2236
35°	3471	2367	2094
40°	3410	2153	2164
45°	3121	1899	2033
50°	2810	1615	1291
55°	2001	1045	556
60°	816	432	136
65°	187	123	35
70°	83	60	17
75°	57	44	7
80°	59	32	3
85°	86	41	9



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	82.6	2.9	1.4
10°-20°	231.1	8.1	4.0
20°-30°	328.5	11.5	5.7
30°-40°	358.3	12.6	6.2
40°-50°	346.2	12.1	6.0
50°-60°	182.5	6.4	3.1
60°-70°	27.8	1.0	0.5
70°-80°	5.3	0.2	0.1
80°-90°	7.3	0.3	0.1
90°-100°	66.8	2.3	1.2
100°-110°	155.1	5.4	2.7
110°-120°	214.2	7.5	3.7
120°-130°	220.1	7.7	3.8
130°-140°	198.1	7.0	3.4
140°-150°	170.5	6.0	2.9
150°-160°	138.1	4.8	2.4
160°-170°	87.7	3.1	1.5
170°-180°	29.6	1.0	0.5
0°-30°	642.2	22.5	11.1
0°-40°	1000.5	35.1	17.3
0°-60°	1529.2	53.7	26.4
0°-90°	1569.5	55.1	27.1
90°-120°	436.2	15.3	7.5
90°-150°	1024.9	36.0	17.7
90°-180°	1280.0	44.9	22.1
0°-180°	2849.7	100.0	49.1

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	857	857	857	857	857	
5°	914	848	899	875	858	84
15°	809	831	818	820	827	231
25°	753	760	733	676	671	345
35°	640	635	547	505	512	401
45°	508	467	419	460	482	392
55°	273	239	212	149	124	237
65°	20	22	22	12	7	36
75°	4	6	7	3	1	5
85°	3	3	5	4	1	3
90°	10	15	17	23	14	10
95°	51	66	64	64	47	48
105°	121	166	165	135	115	128
115°	182	200	241	227	230	180
125°	230	230	241	267	268	200
135°	260	268	250	258	260	194
145°	277	289	283	248	254	173
155°	304	303	303	296	289	139
165°	314	320	298	302	313	89
175°	331	296	306	296	304	31
180°	324	324	324	324	324	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	857.2	857.2	857.2	857.2	857.2
5°	914.4	847.5	899.2	874.8	857.9
10°	843.8	874.0	862.7	837.9	828.3
15°	809.3	831.3	818.2	819.9	827.2
20°	797.8	812.1	770.6	754.9	743.2
25°	753.1	759.8	733.3	675.9	670.9
30°	688.3	687.9	641.7	590.5	548.6
35°	639.6	635.1	546.7	504.7	511.9
40°	594.1	554.2	487.9	490.1	522.8
45°	508.2	467.3	418.6	460.2	481.6
50°	422.0	374.7	343.3	331.4	297.5
55°	273.0	238.6	212.2	148.8	123.7
60°	99.2	92.0	83.0	44.6	28.8
65°	19.8	22.2	22.1	11.5	7.1
70°	7.4	9.5	10.0	5.7	3.2
75°	4.1	6.3	6.6	3.1	1.2
80°	3.2	4.6	4.3	1.8	0.4
85°	3.1	3.3	4.8	3.6	1.3
90°	10.2	14.6	16.7	23.2	13.7
95°	51.3	66.5	63.5	64.3	46.7
100°	86.0	126.8	115.5	102.7	80.7
105°	120.9	166.3	164.7	134.8	114.8
110°	155.8	187.9	217.3	181.9	177.9
115°	182.1	199.8	241.4	226.6	230.0
120°	205.8	209.2	254.2	261.6	255.4
125°	230.0	229.7	241.1	267.2	268.0
130°	226.6	243.5	243.4	262.2	270.7
135°	259.5	267.7	250.0	258.2	259.5
140°	255.8	270.6	250.6	250.3	251.7
145°	277.4	288.6	283.2	247.8	254.5
150°	290.8	312.0	290.0	274.7	262.4
155°	303.8	302.8	302.8	296.4	288.7
160°	307.4	311.0	318.5	298.6	297.2
165°	314.4	319.6	297.5	301.5	313.1
170°	314.5	310.8	324.0	304.7	320.5
175°	331.2	296.5	306.4	295.5	303.9
180°	323.9	323.9	323.9	323.9	323.9

(END OF REPORT)