

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: 23299

Luminaire Tested: **R2-WB-2T5-22**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 23299
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R2-WB-2T5-22
Description: WITH WHITE INTERIOR AND CLEAR LINEAR PRISMATIC PLASTIC LENS WITH
WHITE BAFFLE
Light Source: TWO SYLVANIA 24 WATT T5HO LAMPS

FP24/841. LUMEN RATING = 1750 LMS.

Ballast/Driver: -

Summary

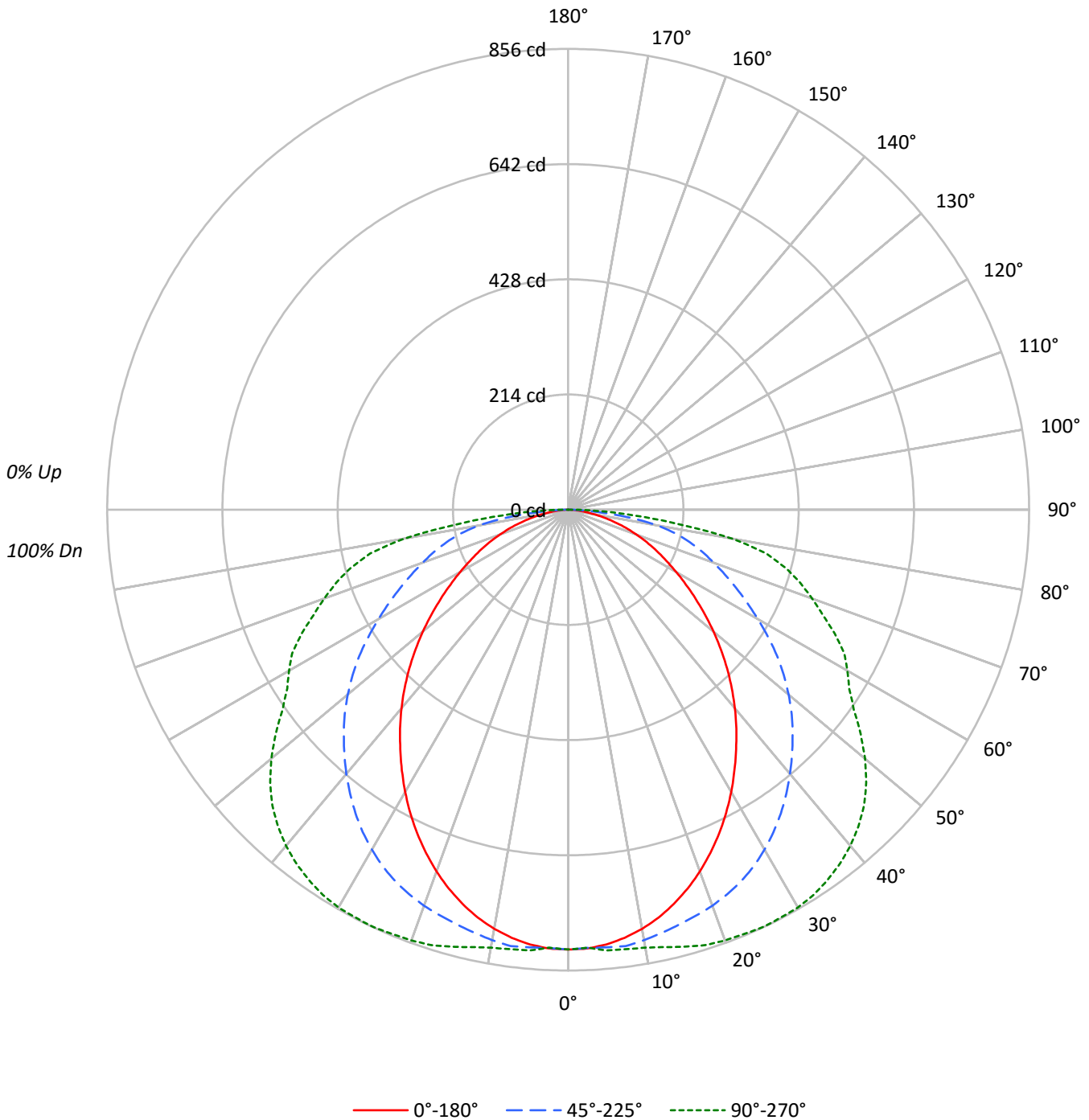
Lumens per Lamp: 1750 (2 lamps)
Luminaire Lumens: 2636.4 lumens
Efficiency: 75.3%
Efficacy: 82.4 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.55 / 1.45
Luminous Opening: Rectangular (W 1.95' x L: 1.91' x H: 0')
CIE Type: Direct

Input Watts (W): 32
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	90	90	90	90	88	88	88	88	84	84	84	80	80	80	77	77	77	75
1	81	77	74	70	79	75	72	69	72	70	67	69	67	65	66	65	63	61
2	73	67	61	56	71	65	60	56	62	58	54	60	56	53	58	55	52	50
3	67	58	52	46	65	57	51	46	55	49	45	52	48	44	51	47	44	42
4	61	51	44	39	59	50	44	39	48	43	38	47	42	38	45	41	37	35
5	56	46	39	33	54	45	38	33	43	37	33	42	36	32	40	36	32	30
6	51	41	34	29	50	40	34	29	39	33	29	38	32	28	36	32	28	26
7	48	37	30	25	46	36	30	25	35	29	25	34	29	25	33	28	25	23
8	44	34	27	23	43	33	27	23	32	27	22	31	26	22	30	26	22	21
9	41	31	25	20	40	31	24	20	30	24	20	29	24	20	28	23	20	19
10	39	29	22	18	38	28	22	18	27	22	18	27	22	18	26	21	18	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2361	2361	2361
5°	2352	2367	2384
10°	2320	2383	2424
15°	2268	2386	2514
20°	2199	2407	2618
25°	2115	2427	2728
30°	2020	2433	2847
35°	1918	2429	2962
40°	1816	2418	3075
45°	1705	2409	3175
50°	1583	2402	3234
55°	1456	2386	3263
60°	1338	2352	3459
65°	1240	2354	3736
70°	1137	2428	4070
75°	1005	2614	4667
80°	817	2808	5156
85°	590	2119	4125



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	77.7	2.9	2.2
10°-20°	226.0	8.6	6.5
20°-30°	350.3	13.3	10.0
30°-40°	431.6	16.4	12.3
40°-50°	456.9	17.3	13.1
50°-60°	418.4	15.9	12.0
60°-70°	345.0	13.1	9.9
70°-80°	250.5	9.5	7.2
80°-90°	80.1	3.0	2.3
90°-100°	0.0	0.0	0.0
100°-110°	0.0	0.0	0.0
110°-120°	0.0	0.0	0.0
120°-130°	0.0	0.0	0.0
130°-140°	0.0	0.0	0.0
140°-150°	0.0	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-30°	653.9	24.8	18.7
0°-40°	1085.5	41.2	31.0
0°-60°	1960.8	74.4	56.0
0°-90°	2636.4	100.0	75.3
90°-120°	0.0	0.0	0.0
90°-150°	0.0	0.0	0.0
90°-180°	0.0	0.0	0.0
0°-180°	2636.4	100.0	75.3

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	817	817	817	817	817	
5°	811	811	816	821	822	77
15°	758	775	798	827	840	213
25°	663	695	761	824	856	305
35°	544	592	688	788	840	340
45°	417	467	589	718	777	322
55°	289	334	474	591	648	259
65°	181	211	344	473	546	180
75°	90	120	234	352	418	96
85°	18	32	64	92	124	22
90°	1	1	3	6	11	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	817.0	817.0	817.0	817.0	817.0
2.5°	815.9	816.2	814.9	814.6	814.2
5°	810.7	810.8	815.9	820.8	821.8
7.5°	802.1	804.3	817.7	822.1	823.4
10°	790.6	798.0	811.9	821.6	826.0
12.5°	776.1	789.5	804.9	822.9	832.1
15°	758.0	774.8	797.6	827.2	840.4
17.5°	737.9	756.1	790.4	829.9	847.9
20°	715.0	736.8	782.7	831.0	851.2
22.5°	690.1	716.6	772.8	827.6	853.1
25°	663.4	695.3	761.0	824.1	855.6
27.5°	635.1	671.4	746.5	818.3	854.3
30°	605.4	645.9	729.2	809.5	853.0
32.5°	574.6	620.1	709.8	800.3	848.3
35°	543.5	591.9	688.5	787.8	839.6
37.5°	512.9	562.8	665.3	772.9	828.8
40°	481.4	532.0	640.9	756.0	815.1
42.5°	449.6	500.2	615.1	738.2	797.7
45°	417.1	467.3	589.3	717.9	776.9
47.5°	384.6	434.4	563.1	693.4	750.6
50°	352.0	400.5	534.2	663.5	719.4
52.5°	320.3	366.6	504.4	628.1	684.4
55°	289.0	334.4	473.5	591.1	647.6
57.5°	259.4	301.7	440.1	555.9	618.5
60°	231.4	269.2	406.9	527.6	598.5
62.5°	205.6	238.4	374.6	503.6	577.9
65°	181.4	211.2	344.3	473.1	546.4
67.5°	157.8	186.2	314.9	440.9	511.9
70°	134.6	163.0	287.4	412.1	481.7
72.5°	112.1	141.3	261.2	383.7	451.6
75°	90.0	120.5	234.1	351.6	418.0
77.5°	68.7	99.8	204.0	313.5	376.5
80°	49.1	78.9	168.7	258.1	309.8
82.5°	31.9	56.4	120.0	173.0	208.7
85°	17.8	31.6	63.9	91.6	124.4
87.5°	6.7	10.5	22.3	35.9	53.5
90°	0.9	1.2	3.4	6.4	10.6

(END OF REPORT)