

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: 23297

Luminaire Tested: **R1-WB-2T5-24**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 23297
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R1-WB-2T5-24
Description: WITH WHITE INTERIOR AND CLEAR LINEAR PRISMATIC PLASTIC LENS WITH
WHITE BAFFLE
Light Source: TWO SYLVANIA 54 WATT T5HO LAMPS

FP54/841. LUMEN RATING = 4450 LMS.

Ballast/Driver: -

Summary

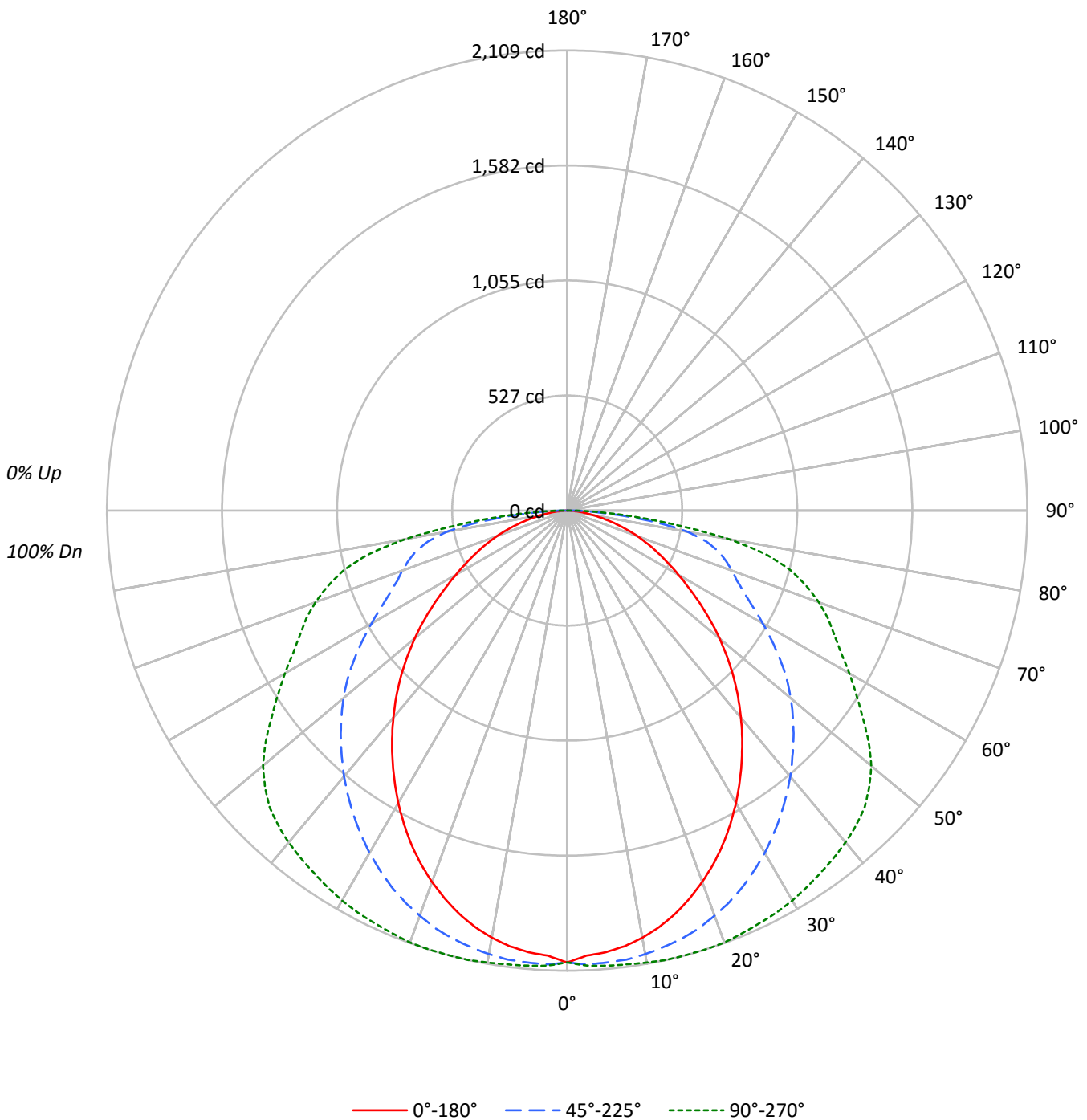
Lumens per Lamp: 4450 (2 lamps)
Luminaire Lumens: 6757.8 lumens
Efficiency: 75.9%
Efficacy: 107.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.49 / 1.43
Luminous Opening: Rectangular (W 1.95' x L: 3.92' x H: 0')
CIE Type: Direct

Input Watts (W): 63
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	81	81	81	77	77	77	76
1	81	77	74	70	79	76	72	69	72	70	67	69	67	65	67	65	63	61
2	73	67	61	56	71	65	60	55	62	58	54	60	56	53	57	54	52	50
3	67	58	51	46	65	57	51	46	54	49	45	52	48	44	50	46	43	41
4	61	51	44	39	59	50	43	38	48	42	38	46	41	37	45	40	37	35
5	56	45	38	33	54	45	38	33	43	37	32	41	36	32	40	35	32	30
6	51	41	34	29	50	40	33	28	39	33	28	37	32	28	36	31	28	26
7	48	37	30	25	46	36	30	25	35	29	25	34	29	25	33	28	24	23
8	44	34	27	22	43	33	27	22	32	26	22	31	26	22	30	25	22	20
9	41	31	24	20	40	30	24	20	30	24	20	29	24	20	28	23	20	18
10	39	28	22	18	38	28	22	18	27	22	18	27	22	18	26	21	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2916	2916	2916
5°	2872	2939	2960
10°	2842	2952	3007
15°	2789	2960	3074
20°	2714	2960	3157
25°	2623	2957	3242
30°	2516	2945	3355
35°	2398	2932	3482
40°	2278	2924	3649
45°	2147	2922	3837
50°	1997	2932	3986
55°	1826	2927	4059
60°	1658	2917	4205
65°	1529	2984	4503
70°	1407	3306	5053
75°	1221	3892	5774
80°	985	4537	6105
85°	711	3789	4671



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	197.0	2.9	2.2
10°-20°	570.2	8.4	6.4
20°-30°	873.3	12.9	9.8
30°-40°	1068.8	15.8	12.0
40°-50°	1142.3	16.9	12.8
50°-60°	1067.2	15.8	12.0
60°-70°	893.4	13.2	10.0
70°-80°	697.6	10.3	7.8
80°-90°	247.9	3.7	2.8
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°	1640.6	24.3	18.4
0°-40°	2709.3	40.1	30.4
0°-60°	4918.9	72.8	55.3
0°-90°	6757.8	100.0	75.9
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°	6757.8	100.0	75.9

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2071	2071	2071	2071	2071	
5°	2032	2047	2079	2090	2094	193
15°	1913	1952	2031	2088	2109	538
25°	1688	1756	1903	2030	2087	776
35°	1395	1489	1706	1922	2026	872
45°	1078	1182	1468	1774	1927	831
55°	744	858	1192	1524	1653	666
65°	459	553	896	1230	1351	456
75°	224	340	715	984	1061	239
85°	44	156	234	280	289	55
90°	2	7	19	26	27	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2070.8	2070.8	2070.8	2070.8	2070.8
2.5°	2041.9	2055.7	2081.7	2085.5	2087.7
5°	2031.6	2047.2	2079.0	2089.8	2093.7
7.5°	2013.8	2033.3	2075.6	2091.0	2098.0
10°	1987.8	2012.8	2064.3	2090.8	2103.1
12.5°	1954.1	1986.8	2048.5	2092.0	2109.1
15°	1913.0	1951.5	2030.6	2087.7	2108.6
17.5°	1864.6	1908.9	2007.1	2076.4	2108.8
20°	1811.0	1861.3	1975.6	2067.2	2106.7
22.5°	1752.4	1810.6	1942.4	2051.6	2096.3
25°	1688.4	1755.5	1903.1	2030.1	2086.9
27.5°	1619.5	1696.3	1858.6	2006.8	2077.1
30°	1547.4	1631.8	1811.2	1982.5	2063.6
32.5°	1472.6	1561.1	1759.6	1953.6	2045.3
35°	1395.2	1489.2	1705.7	1921.5	2025.8
37.5°	1317.7	1415.4	1649.2	1887.5	2007.3
40°	1239.3	1338.4	1590.9	1851.5	1985.2
42.5°	1159.6	1260.7	1528.6	1814.2	1958.9
45°	1078.3	1182.3	1467.5	1773.8	1926.9
47.5°	995.6	1103.1	1403.8	1727.1	1878.2
50°	911.6	1023.0	1338.6	1668.1	1819.5
52.5°	827.4	941.3	1268.8	1602.3	1742.0
55°	743.7	858.5	1192.1	1524.5	1653.3
57.5°	662.7	775.8	1113.7	1439.9	1571.7
60°	588.6	696.8	1035.8	1360.7	1493.1
62.5°	521.2	621.8	961.4	1292.4	1416.3
65°	459.0	552.7	895.6	1230.3	1351.4
67.5°	400.3	490.9	843.3	1176.7	1293.9
70°	341.8	434.2	803.1	1123.6	1227.3
72.5°	282.2	382.9	762.0	1061.0	1150.3
75°	224.4	339.7	715.3	983.5	1061.3
77.5°	170.5	306.4	653.0	878.0	939.3
80°	121.5	277.4	559.5	723.6	752.9
82.5°	78.9	236.0	411.6	503.4	499.3
85°	44.0	155.6	234.5	279.7	289.1
87.5°	18.0	58.7	93.3	115.0	121.2
90°	2.4	7.2	19.2	25.7	26.9

(END OF REPORT)