

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: 23492

Luminaire Tested: **R1-WP-2T5-UNV-14-T1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 23492
Test Lab: LIGHTING SCIENCES, INC.
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R1-WP-2T5-UNV-14-T1
Description: WITH WHITE INTERIOR AND FROSTED LINEAR PRISMATIC PLASTIC LENS WITH
ROUND PERF
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: 5656.6 lumens
Efficiency: 63.6%
Efficacy: 94.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.31 / 1.39
Luminous Opening: Rectangular (W 0.92' x L: 3.92' x H: 0')
CIE Type: Direct

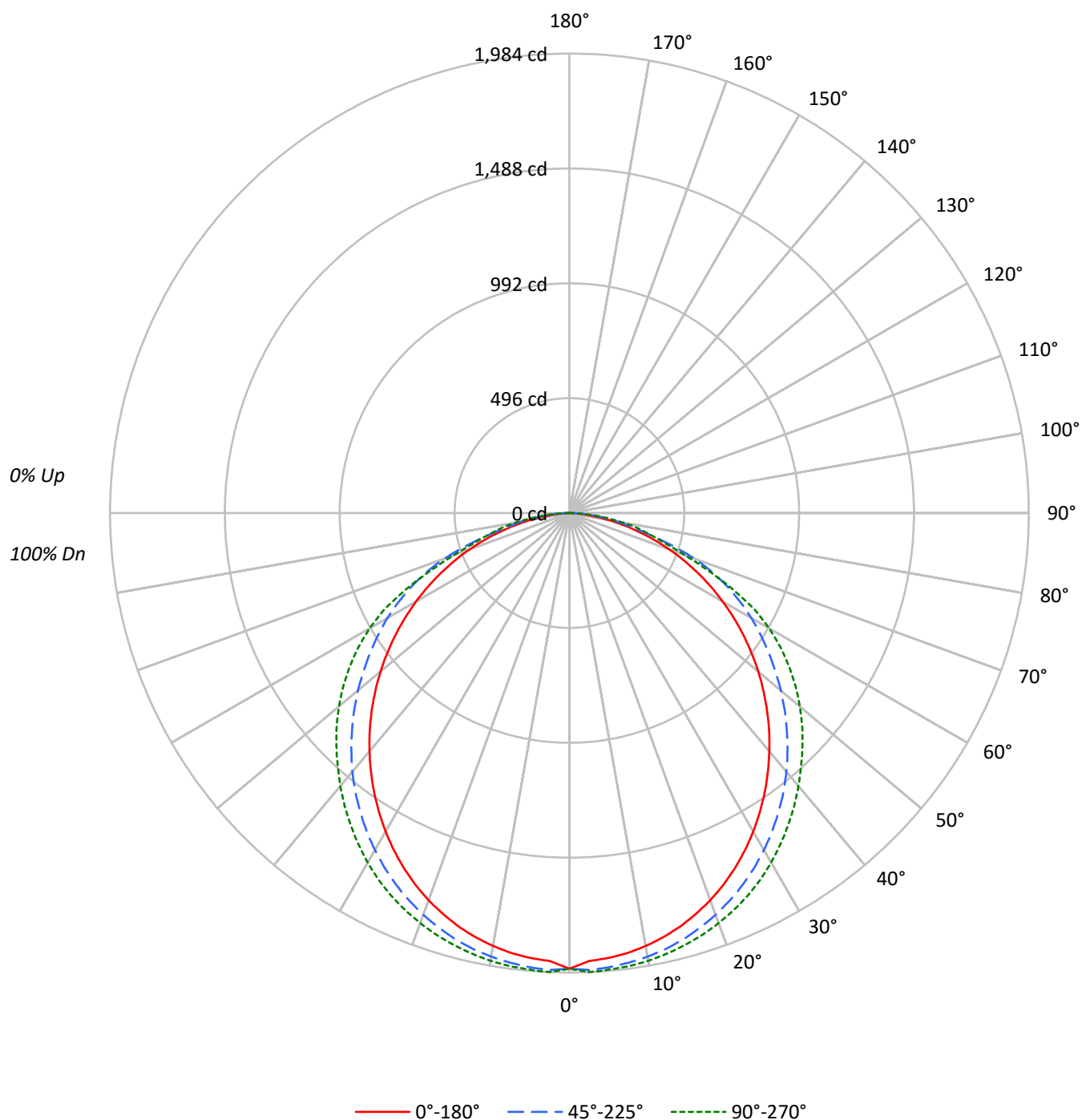
Input Watts (W): 60
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	76	76	76	76	74	74	74	74	71	71	71	68	68	68	65	65	65
1	69	66	63	61	67	65	62	60	62	60	58	59	58	56	57	56	55
2	63	58	53	50	61	56	52	49	54	51	48	52	49	47	50	48	46
3	57	50	45	41	56	49	45	41	48	43	40	46	42	39	44	41	39
4	52	45	39	35	51	44	39	34	42	38	34	41	37	34	39	36	33
5	48	40	34	30	47	39	34	30	38	33	29	37	32	29	35	32	29
6	44	36	30	26	43	35	30	26	34	29	26	33	29	25	32	28	25
7	41	32	27	23	40	32	27	23	31	26	23	30	26	23	29	25	22
8	38	30	24	20	37	29	24	20	28	24	20	28	23	20	27	23	20
9	36	27	22	18	35	27	22	18	26	21	18	25	21	18	25	21	18
10	34	25	20	17	33	25	20	17	24	20	17	23	19	16	23	19	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5872	5872	5872
5°	5778	5898	5928
10°	5753	5895	5950
15°	5711	5886	5965
20°	5649	5862	5985
25°	5570	5832	6001
30°	5473	5790	6005
35°	5359	5739	5998
40°	5235	5680	5996
45°	5098	5606	6007
50°	4944	5533	6031
55°	4768	5465	6031
60°	4566	5416	5954
65°	4326	5322	5491
70°	4006	5023	4617
75°	3544	4096	4161
80°	2851	3494	4020
85°	1962	3116	3407



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	186.4	3.3	2.1
10°-20°	535.1	9.5	6.0
20°-30°	812.2	14.4	9.1
30°-40°	979.5	17.3	11.0
40°-50°	1019.1	18.0	11.5
50°-60°	933.2	16.5	10.5
60°-70°	712.3	12.6	8.0
70°-80°	378.1	6.7	4.2
80°-90°	100.8	1.8	1.1
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°	1533.6	27.1	17.2
0°-40°	2513.1	44.4	28.2
0°-60°	4465.4	78.9	50.2
0°-90°	5656.6	100.0	63.6
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°	5656.6	100.0	63.6

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1967	1967	1967	1967	1967	
5°	1928	1943	1969	1977	1979	183
15°	1848	1867	1905	1923	1930	521
25°	1691	1716	1771	1807	1822	779
35°	1471	1503	1575	1626	1646	920
45°	1208	1244	1328	1394	1423	931
55°	916	959	1050	1131	1159	819
65°	612	661	754	791	778	606
75°	307	363	355	350	361	326
85°	57	68	91	97	100	73
90°	2	5	8	11	12	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1967.4	1967.4	1967.4	1967.4	1967.4
2.5°	1935.7	1949.7	1974.7	1981.4	1983.8
5°	1928.4	1942.6	1968.7	1976.6	1978.6
7.5°	1915.9	1930.9	1958.3	1968.4	1972.7
10°	1898.1	1914.5	1945.0	1957.6	1963.1
12.5°	1875.7	1893.1	1927.5	1942.9	1948.5
15°	1848.2	1866.6	1904.8	1923.1	1930.4
17.5°	1815.3	1835.3	1877.4	1899.0	1909.7
20°	1778.6	1799.8	1845.6	1872.3	1884.4
22.5°	1737.4	1760.3	1810.5	1841.3	1855.2
25°	1691.4	1716.2	1771.0	1806.6	1822.2
27.5°	1641.6	1668.3	1727.4	1767.3	1785.1
30°	1587.9	1616.8	1680.1	1723.9	1742.3
32.5°	1531.0	1561.6	1629.3	1676.3	1696.0
35°	1470.8	1502.9	1575.1	1625.9	1646.2
37.5°	1408.2	1442.2	1518.5	1572.5	1594.1
40°	1343.5	1378.4	1457.9	1515.4	1539.0
42.5°	1276.7	1312.1	1394.0	1455.7	1481.4
45°	1207.8	1244.0	1328.2	1393.8	1423.2
47.5°	1136.8	1175.3	1260.8	1332.3	1363.4
50°	1064.8	1104.1	1191.7	1269.2	1298.9
52.5°	991.1	1031.8	1120.4	1201.4	1231.9
55°	916.2	958.8	1050.3	1131.2	1159.0
57.5°	841.0	885.4	979.7	1056.3	1081.2
60°	764.9	811.4	907.3	976.9	997.4
62.5°	688.8	736.3	832.1	891.4	900.5
65°	612.5	661.3	753.6	791.0	777.5
67.5°	535.7	586.5	669.8	666.0	646.7
70°	459.1	512.1	575.6	541.4	529.1
72.5°	382.4	437.9	463.9	433.5	428.5
75°	307.3	363.4	355.2	350.0	360.8
77.5°	233.9	287.5	266.6	291.2	302.7
80°	165.9	204.3	203.3	229.8	233.9
82.5°	107.6	124.7	149.1	161.3	163.3
85°	57.3	67.5	91.0	97.0	99.5
87.5°	18.3	27.9	39.8	44.1	46.2
90°	1.9	4.6	8.4	10.6	12.3

(END OF REPORT)