

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: 23294

Luminaire Tested: **R1-WB-2T5-14**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 23294
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R1-WB-2T5-14
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

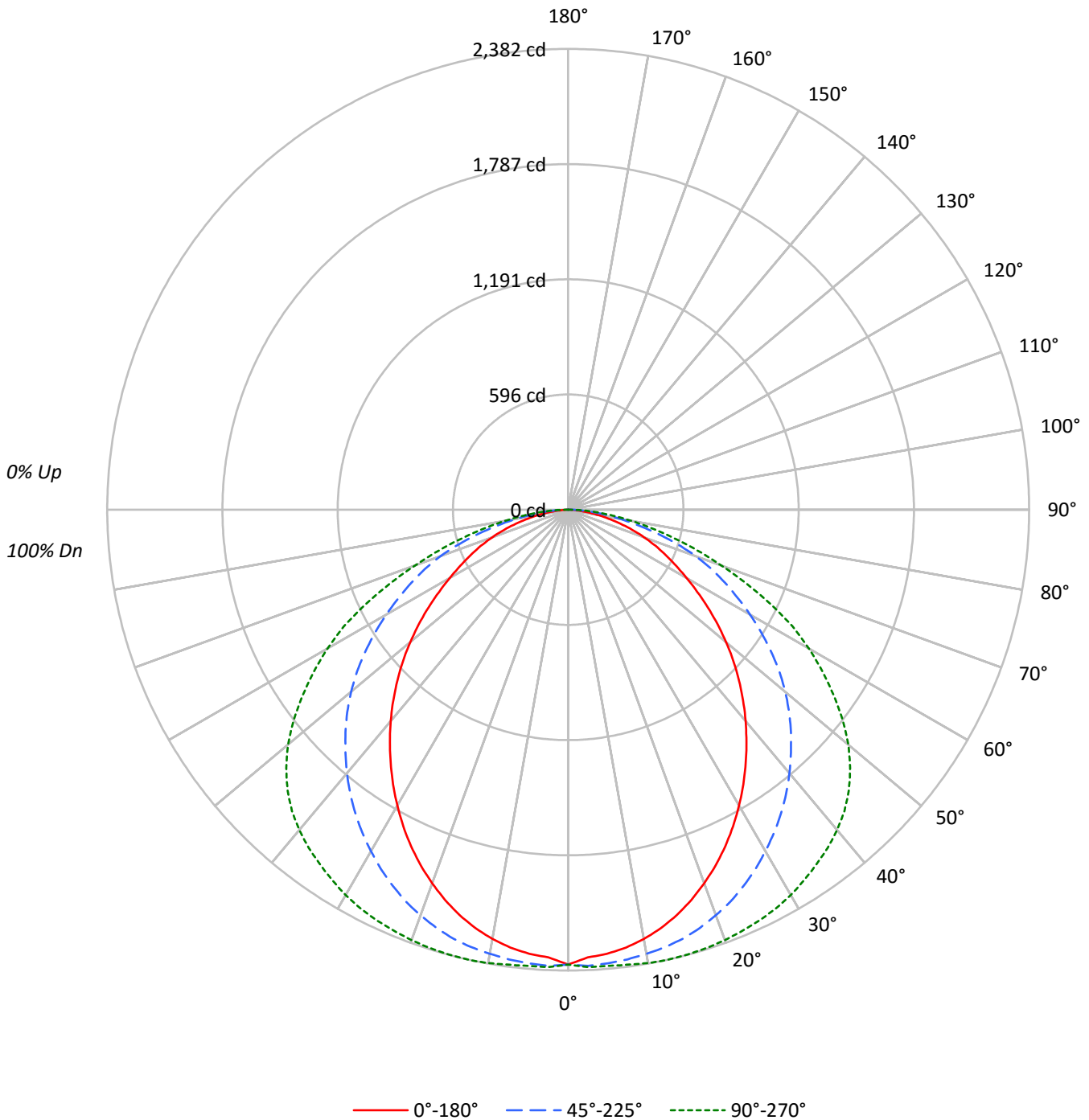
Lumens per Lamp: 4450 (2 lamps)
Luminaire Lumens: 6905.1 lumens
Efficiency: 77.6%
Efficacy: 113.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.45 / 1.41
Luminous Opening: Rectangular (W 0.92' x L: 3.92' x H: 0')
CIE Type: Direct

Input Watts (W): 61
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



TEST NUMBER: 23294
CATALOG NUMBER: R1-WB-2T5-14

Luminous Intensity Polar Plot





TEST NUMBER: 23294
 CATALOG NUMBER: R1-WB-2T5-14

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	92	92	92	92	90	90	90	90	86	86	86	83	83	83	79	79	79	78
1	84	81	77	74	82	79	76	73	76	73	71	73	70	69	70	68	67	65
2	77	70	65	60	75	69	64	60	66	62	58	63	60	57	61	58	56	54
3	70	62	55	50	68	60	54	50	58	53	49	56	51	48	54	50	47	45
4	64	54	48	42	62	53	47	42	51	46	41	50	45	41	48	44	40	39
5	59	49	42	36	57	48	41	36	46	40	36	44	39	35	43	39	35	33
6	54	44	37	32	53	43	36	32	42	36	31	40	35	31	39	34	31	29
7	50	40	33	28	49	39	32	28	38	32	28	37	31	27	36	31	27	26
8	47	36	29	25	45	36	29	25	34	29	25	34	28	24	33	28	24	23
9	44	33	27	22	42	33	26	22	32	26	22	31	26	22	30	25	22	20
10	41	30	24	20	40	30	24	20	29	24	20	29	24	20	28	23	20	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7017	7017	7017
5°	6903	7051	7092
10°	6829	7064	7211
15°	6702	7091	7357
20°	6528	7086	7520
25°	6323	7064	7711
30°	6086	7024	7928
35°	5826	6984	8151
40°	5557	6929	8422
45°	5269	6870	8657
50°	4947	6800	8775
55°	4581	6660	8719
60°	4217	6476	8574
65°	3932	6313	8140
70°	3650	6121	7334
75°	3213	5481	6496
80°	2613	4675	5681
85°	1705	4120	4825



TEST NUMBER: 23294
 CATALOG NUMBER: R1-WB-2T5-14

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	223.0	3.2	2.5
10°-20°	644.1	9.3	7.2
20°-30°	984.6	14.3	11.1
30°-40°	1198.5	17.4	13.5
40°-50°	1260.1	18.2	14.2
50°-60°	1139.2	16.5	12.8
60°-70°	856.5	12.4	9.6
70°-80°	473.4	6.9	5.3
80°-90°	125.7	1.8	1.4
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°	1851.7	26.8	20.8
0°-40°	3050.2	44.2	34.3
0°-60°	5449.5	78.9	61.2
0°-90°	6905.1	100.0	77.6
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°	6905.1	100.0	77.6

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2351	2351	2351	2351	2351	
5°	2304	2320	2353	2365	2367	218
15°	2169	2202	2295	2358	2381	610
25°	1920	1989	2145	2280	2341	883
35°	1599	1695	1917	2131	2237	1000
45°	1248	1355	1628	1909	2051	962
55°	880	985	1280	1558	1676	789
65°	557	625	894	1095	1153	553
75°	279	341	475	542	563	296
85°	50	67	120	137	141	65
90°	2	5	15	16	18	



TEST NUMBER: 23294
 CATALOG NUMBER: R1-WB-2T5-14

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2351.0	2351.0	2351.0	2351.0	2351.0
2.5°	2316.1	2331.8	2360.2	2365.9	2366.5
5°	2303.9	2319.8	2353.4	2364.7	2367.1
7.5°	2283.0	2300.7	2344.3	2364.0	2371.9
10°	2253.2	2275.8	2330.8	2366.5	2379.4
12.5°	2215.1	2243.0	2315.9	2365.0	2382.5
15°	2168.9	2201.6	2294.8	2357.6	2380.8
17.5°	2115.1	2154.1	2266.2	2343.3	2375.4
20°	2055.2	2103.5	2230.8	2326.5	2367.6
22.5°	1990.3	2049.1	2192.8	2305.1	2355.2
25°	1920.0	1989.0	2144.9	2280.3	2341.4
27.5°	1845.2	1922.1	2094.4	2250.8	2323.8
30°	1766.0	1849.1	2038.1	2215.9	2300.3
32.5°	1683.8	1773.7	1979.9	2175.9	2270.0
35°	1598.9	1694.9	1916.9	2131.0	2237.2
37.5°	1513.2	1613.1	1850.3	2082.1	2202.8
40°	1426.2	1528.7	1778.5	2029.4	2161.7
42.5°	1337.9	1442.7	1703.0	1972.9	2112.4
45°	1248.4	1355.2	1627.5	1909.2	2050.9
47.5°	1157.5	1266.4	1548.3	1836.0	1976.1
50°	1065.4	1174.6	1464.4	1753.0	1889.9
52.5°	972.8	1080.5	1374.9	1660.4	1788.2
55°	880.4	985.2	1279.9	1558.5	1675.6
57.5°	791.2	890.0	1183.5	1449.7	1558.4
60°	706.5	796.6	1084.8	1338.3	1436.3
62.5°	628.6	707.7	987.0	1220.8	1306.1
65°	556.8	625.2	893.9	1095.0	1152.6
67.5°	488.1	549.6	801.0	952.1	995.4
70°	418.3	478.4	701.4	805.8	840.4
72.5°	348.0	408.5	591.0	668.5	701.2
75°	278.6	341.3	475.3	542.2	563.3
77.5°	212.9	273.2	368.8	419.8	438.5
80°	152.0	200.1	272.0	317.0	330.5
82.5°	96.5	127.5	189.8	223.0	231.2
85°	49.8	66.9	120.3	136.6	140.9
87.5°	16.8	25.8	59.0	61.8	64.9
90°	2.4	4.8	14.7	15.9	18.3

(END OF REPORT)