

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: 23307

Luminaire Tested: **R2-WB-1T5-24**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 23307
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R2-WB-1T5-24
Description: WITH WHITE INTERIOR AND CLEAR LINEAR PRISMATIC PLASTIC LENS WITH
WHITE BAFFLE
Light Source: ONE SYLVANIA 54 WATT T5HO LAMP

FP54/841. LUMEN RATING = 4450 LMS.

Ballast/Driver: -

Summary

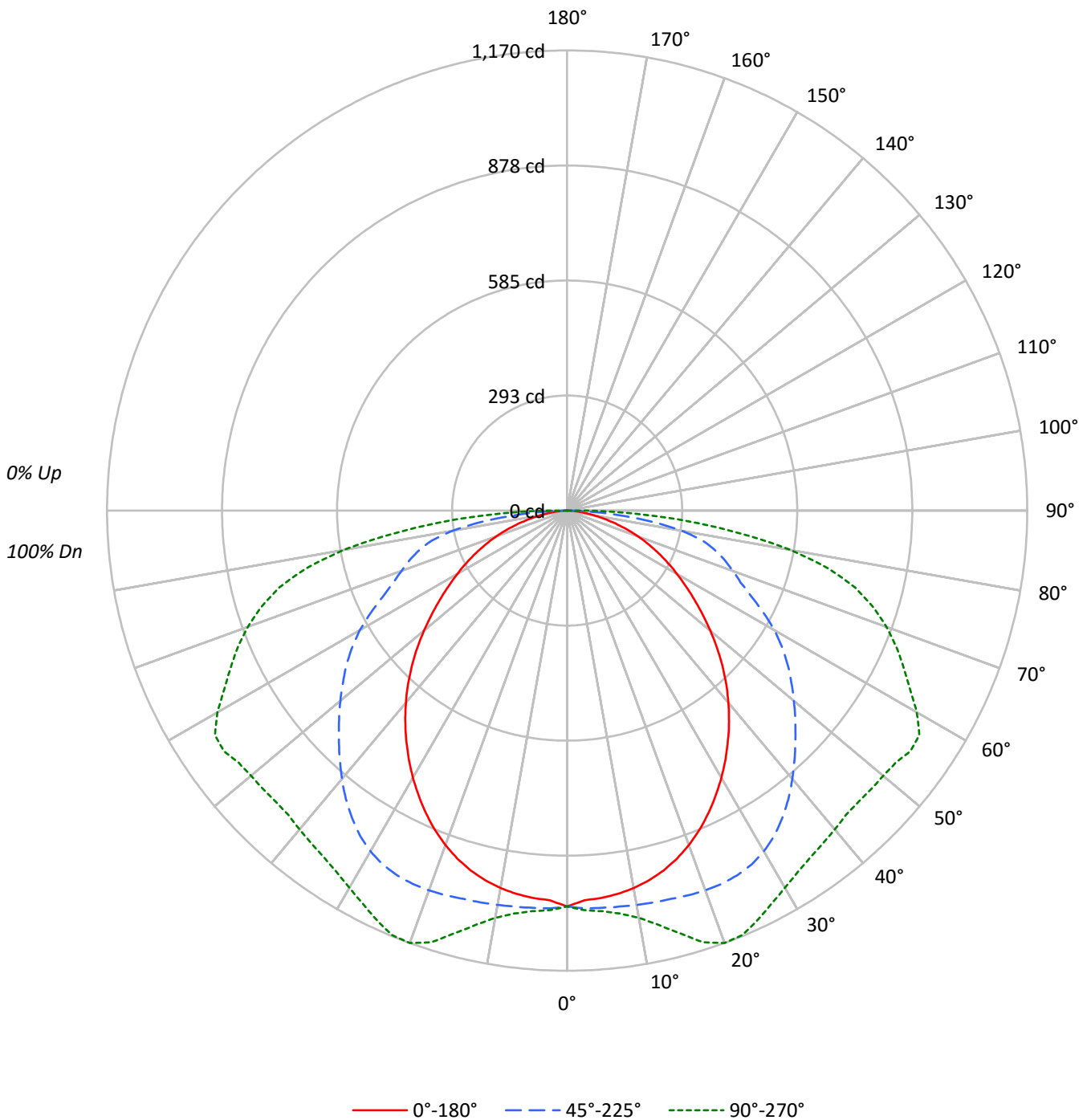
Lumens per Lamp: 4450 (1 lamp)
Luminaire Lumens: 3811.6 lumens
Efficiency: 85.7%
Efficacy: 115.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.61 / 1.53
Luminous Opening: Rectangular (W 1.95' x L: 3.92' x H: 0')
CIE Type: Direct

Input Watts (W): 33
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	102	102	102	102	100	100	100	100	95	95	95	91	91	91	87	87	87	86
1	91	86	82	78	89	84	81	77	81	77	74	77	75	72	74	72	70	68
2	82	74	67	62	80	72	66	61	69	64	59	66	62	58	64	60	57	55
3	74	64	56	50	72	63	55	50	60	54	49	58	52	48	55	51	47	45
4	68	56	48	42	65	55	47	41	53	46	41	51	45	40	49	44	40	38
5	62	50	42	35	60	49	41	35	47	40	35	45	39	34	44	38	34	32
6	57	45	37	31	55	44	36	31	42	35	30	41	35	30	39	34	30	28
7	53	40	32	27	51	40	32	27	38	31	27	37	31	26	36	30	26	24
8	49	37	29	24	48	36	29	24	35	28	24	34	28	23	33	27	23	21
9	46	34	26	21	44	33	26	21	32	26	21	31	25	21	30	25	21	19
10	43	31	24	19	42	31	24	19	30	23	19	29	23	19	28	23	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1417	1417	1417
5°	1397	1433	1445
10°	1394	1456	1503
15°	1381	1490	1623
20°	1356	1540	1753
25°	1320	1590	1783
30°	1275	1627	1801
35°	1226	1640	1852
40°	1173	1638	1946
45°	1112	1635	2086
50°	1041	1649	2298
55°	969	1682	2617
60°	908	1715	2891
65°	854	1721	3145
70°	788	1845	3556
75°	692	2122	4126
80°	556	2407	4680
85°	393	2133	4959



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	96.5	2.5	2.2
10°-20°	291.2	7.6	6.5
20°-30°	465.1	12.2	10.5
30°-40°	571.7	15.0	12.8
40°-50°	618.3	16.2	13.9
50°-60°	620.2	16.3	13.9
60°-70°	548.7	14.4	12.3
70°-80°	428.3	11.2	9.6
80°-90°	171.7	4.5	3.9
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°	852.8	22.4	19.2
0°-40°	1424.5	37.4	32.0
0°-60°	2663.0	69.9	59.8
0°-90°	3811.6	100.0	85.7
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°	3811.6	100.0	85.7

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1006	1006	1006	1006	1006	
5°	989	999	1014	1020	1022	94
15°	947	969	1022	1085	1113	267
25°	849	892	1023	1131	1148	391
35°	713	768	954	1033	1077	446
45°	558	612	821	960	1047	430
55°	395	449	685	914	1066	354
65°	256	296	516	793	944	254
75°	127	172	390	640	758	135
85°	24	76	132	238	307	31
90°	2	5	14	36	50	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1006.4	1006.4	1006.4	1006.4	1006.4
2.5°	991.7	999.5	1012.4	1015.5	1017.0
5°	988.6	998.9	1013.9	1020.2	1022.5
7.5°	983.1	995.6	1015.6	1027.8	1033.4
10°	974.6	989.6	1018.2	1040.1	1051.1
12.5°	962.6	981.2	1020.1	1058.1	1079.0
15°	947.2	968.9	1022.1	1085.1	1113.4
17.5°	928.0	954.2	1025.6	1112.3	1150.7
20°	905.1	936.6	1027.6	1135.6	1170.0
22.5°	878.7	915.0	1027.1	1141.8	1167.3
25°	849.3	892.2	1023.2	1130.6	1147.8
27.5°	817.6	865.5	1014.8	1107.2	1126.2
30°	784.2	835.6	1000.4	1080.7	1107.4
32.5°	749.5	803.6	980.2	1056.9	1090.4
35°	713.0	768.1	954.0	1033.1	1077.1
37.5°	676.1	730.7	924.1	1013.2	1067.5
40°	638.1	691.6	891.0	995.1	1058.4
42.5°	598.7	651.8	855.9	976.8	1049.5
45°	558.3	611.7	821.0	960.2	1047.3
47.5°	516.9	572.0	786.5	947.7	1048.5
50°	475.1	530.9	752.7	937.2	1049.0
52.5°	434.2	489.5	718.8	924.4	1052.9
55°	394.9	448.6	685.0	914.3	1065.8
57.5°	357.4	408.2	648.7	902.5	1061.7
60°	322.5	369.2	608.8	872.7	1026.6
62.5°	289.4	331.9	562.8	829.6	982.6
65°	256.4	296.1	516.5	792.8	943.9
67.5°	223.9	261.5	477.3	762.0	906.1
70°	191.4	229.2	448.1	724.8	863.6
72.5°	159.0	199.1	420.0	686.0	815.5
75°	127.2	172.5	390.1	639.6	758.4
77.5°	96.5	151.8	352.9	569.8	681.0
80°	68.6	136.1	296.8	487.1	577.1
82.5°	44.0	114.7	219.4	368.7	444.0
85°	24.3	75.5	132.0	238.4	306.9
87.5°	9.6	30.5	56.1	128.0	166.9
90°	1.7	5.1	14.2	36.3	50.5

(END OF REPORT)