

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: 23390

Luminaire Tested: **R2-WB-1T5-14**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 23390
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R2-WB-1T5-14
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

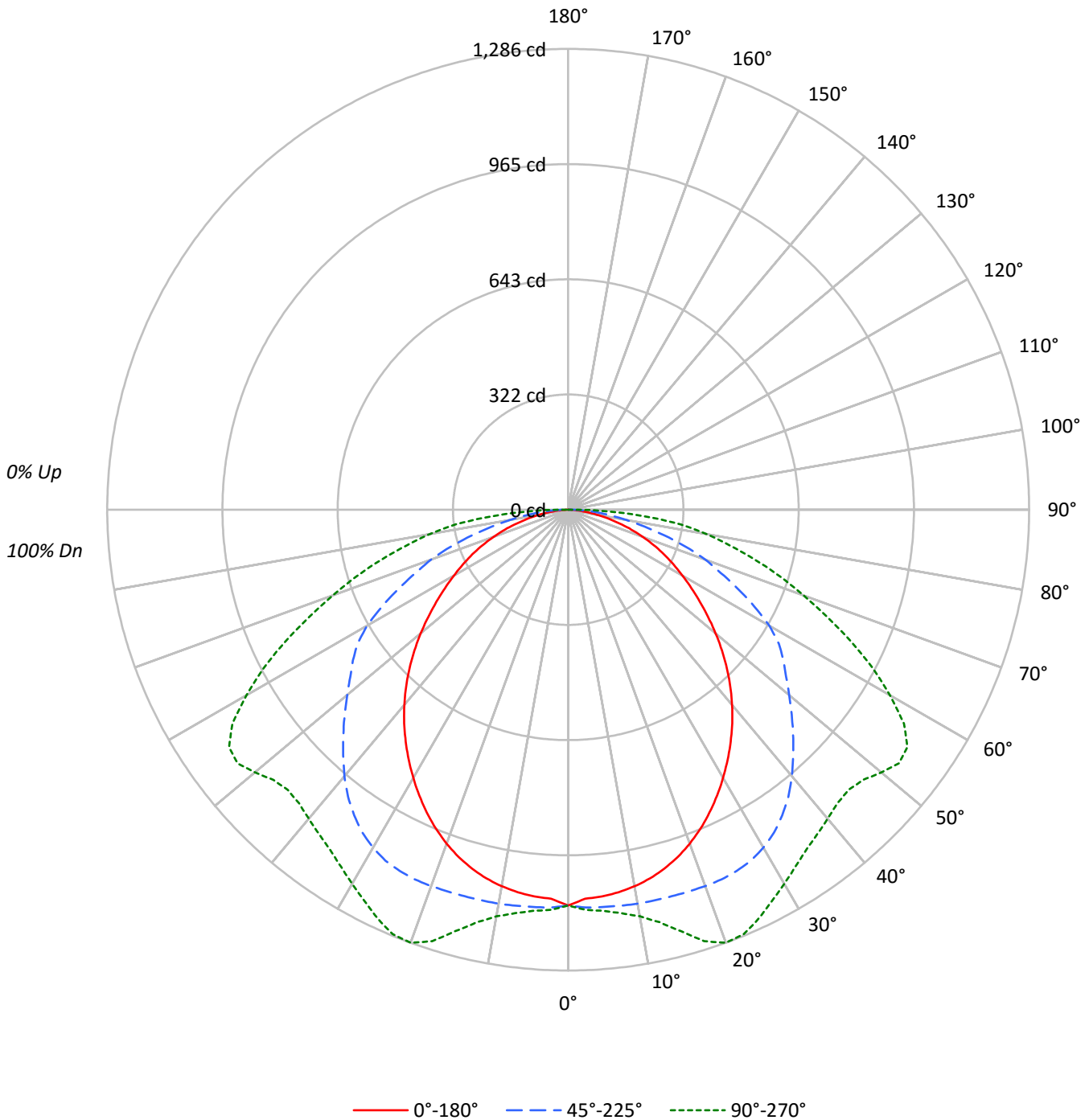
Lumens per Lamp: 4450 (1 lamp)
Luminaire Lumens: 3868.8 lumens
Efficiency: 86.9%
Efficacy: 113.8 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.57 / 1.52
Luminous Opening: Rectangular (W 0.92' x L: 3.92' x H: 0')
CIE Type: Direct

Input Watts (W): 34
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



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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	50	30	10	50	30	10	0														
RCR																																						
0	103	103	103	103	101	101	101	101	97	97	97	92	92	92	89	89	89	87	87	87	87	87	87	87														
1	94	89	85	82	91	87	84	80	83	80	78	80	78	75	77	75	73	71	71	71	71	71	71	71														
2	85	77	71	65	82	75	69	65	72	67	63	69	65	62	67	63	60	58	58	58	58	58	58	58														
3	77	67	60	54	75	66	59	53	63	57	52	61	55	51	58	54	50	48	48	48	48	48	48	48														
4	70	59	51	45	68	58	50	44	56	49	44	54	48	43	52	47	43	41	41	41	41	41	41	41														
5	64	52	44	38	62	51	44	38	50	43	38	48	42	37	46	41	37	35	35	35	35	35	35	35														
6	59	47	39	33	57	46	38	33	45	38	33	43	37	32	42	36	32	30	30	30	30	30	30	30														
7	55	42	35	29	53	42	34	29	40	34	29	39	33	28	38	32	28	26	26	26	26	26	26	26														
8	51	39	31	26	49	38	31	26	37	30	25	36	30	25	35	29	25	23	23	23	23	23	23	23														
9	47	35	28	23	46	35	28	23	34	27	23	33	27	23	32	27	23	21	21	21	21	21	21	21														
10	44	33	25	21	43	32	25	21	31	25	21	30	25	21	30	24	20	19	19	19	19	19	19	19														

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3297	3297	3297
5°	3245	3335	3366
10°	3234	3384	3492
15°	3205	3451	3763
20°	3150	3550	4084
25°	3072	3663	4145
30°	2979	3753	4154
35°	2879	3794	4220
40°	2771	3784	4386
45°	2644	3744	4668
50°	2494	3735	5295
55°	2335	3814	6010
60°	2201	3867	6190
65°	2081	3685	6151
70°	1936	3546	6091
75°	1721	3212	6227
80°	1406	2800	6748
85°	938	2572	7489



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	105.9	2.7	2.4
10°-20°	318.5	8.2	7.2
20°-30°	508.7	13.2	11.4
30°-40°	622.8	16.1	14.0
40°-50°	667.6	17.3	15.0
50°-60°	668.8	17.3	15.0
60°-70°	537.9	13.9	12.1
70°-80°	327.6	8.5	7.4
80°-90°	111.0	2.9	2.5
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°	933.1	24.1	21.0
0°-40°	1555.9	40.2	35.0
0°-60°	2892.3	74.8	65.0
0°-90°	3868.8	100.0	86.9
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°	3868.8	100.0	86.9

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1105	1105	1105	1105	1105	
5°	1083	1095	1113	1121	1124	103
15°	1037	1062	1117	1183	1218	292
25°	933	977	1112	1240	1258	429
35°	790	846	1041	1117	1158	494
45°	626	678	887	1014	1106	483
55°	449	498	733	987	1155	403
65°	295	325	522	747	871	292
75°	149	176	278	436	540	158
85°	27	37	75	167	219	35
90°	1	2	8	21	29	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1104.6	1104.6	1104.6	1104.6	<i>1104.6</i>
2.5°	1086.7	1096.6	1111.1	1116.1	<i>1117.8</i>
5°	1083.1	1095.0	1113.0	1120.9	<i>1123.5</i>
7.5°	1076.9	1092.0	1114.4	1128.8	<i>1135.4</i>
10°	1067.0	1084.9	1116.6	1139.9	<i>1152.2</i>
12.5°	1054.0	1074.7	1116.4	1156.8	<i>1179.3</i>
15°	1037.2	1061.8	1116.8	1183.2	<i>1217.9</i>
17.5°	1016.3	1045.1	1117.1	1213.8	<i>1262.4</i>
20°	<i>991.7</i>	<i>1025.9</i>	<i>1117.6</i>	<i>1243.6</i>	<i>1285.9</i>
22.5°	963.8	1002.4	1116.8	1251.5	<i>1281.3</i>
25°	932.8	976.6	1112.3	1239.5	<i>1258.5</i>
27.5°	899.4	948.5	1104.1	1213.1	<i>1230.9</i>
30°	864.3	916.9	1088.9	1182.0	<i>1205.4</i>
32.5°	827.7	882.6	1068.7	1149.8	<i>1180.4</i>
35°	790.2	846.2	1041.3	1116.6	<i>1158.2</i>
37.5°	751.5	805.8	1009.1	1087.7	<i>1141.6</i>
40°	711.3	763.7	971.1	1061.7	<i>1125.7</i>
42.5°	669.4	721.1	928.9	1037.0	<i>1111.5</i>
45°	626.3	677.9	887.1	1013.6	<i>1105.8</i>
47.5°	581.8	633.8	845.5	997.8	<i>1115.8</i>
50°	537.1	589.1	804.4	995.1	<i>1140.4</i>
52.5°	492.2	543.4	766.1	998.3	<i>1162.5</i>
55°	448.8	497.9	732.9	987.0	<i>1154.9</i>
57.5°	407.5	452.9	696.9	948.9	<i>1110.3</i>
60°	368.7	408.4	647.8	886.4	<i>1036.9</i>
62.5°	331.5	365.6	586.0	814.4	<i>958.3</i>
65°	294.7	324.9	521.8	746.9	<i>871.0</i>
67.5°	258.1	286.0	460.7	668.2	<i>781.1</i>
70°	221.8	248.3	406.3	585.7	<i>698.0</i>
72.5°	185.2	211.7	344.0	509.4	<i>619.4</i>
75°	149.2	176.3	278.5	436.4	<i>540.0</i>
77.5°	114.5	139.5	217.2	366.1	<i>463.1</i>
80°	81.8	103.2	162.9	301.6	<i>392.6</i>
82.5°	52.4	67.4	115.5	238.6	<i>316.5</i>
85°	27.4	37.0	75.1	167.2	<i>218.7</i>
87.5°	8.9	14.5	36.1	86.3	<i>113.8</i>
90°	0.7	2.2	7.9	21.1	<i>28.6</i>

(END OF REPORT)