

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: 26976

Luminaire Tested: **R3-WB-1T5-1C-UNV-24-TI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 26976  
Test Lab: LIGHTING SCIENCES, INC.  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: R3-WB-1T5-1C-UNV-24-TI  
Description: WITH WHITE INTERIOR AND CURVED FROSTED PLASTIC SIDE LENSES  
  
Light Source: ONE GE 54 WATT T5 LAMP  
  
F54W/835. LUMEN RATING = 4450 LMS.  
  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 4450 (1 lamp)  
Luminaire Lumens: 3314.1 lumens  
Efficiency: 74.5%  
Efficacy: 48.0 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.47 / 1.43  
Luminous Opening: Rectangular (W 1.79' x L: 3.92' x H: 0')  
CIE Type: Direct

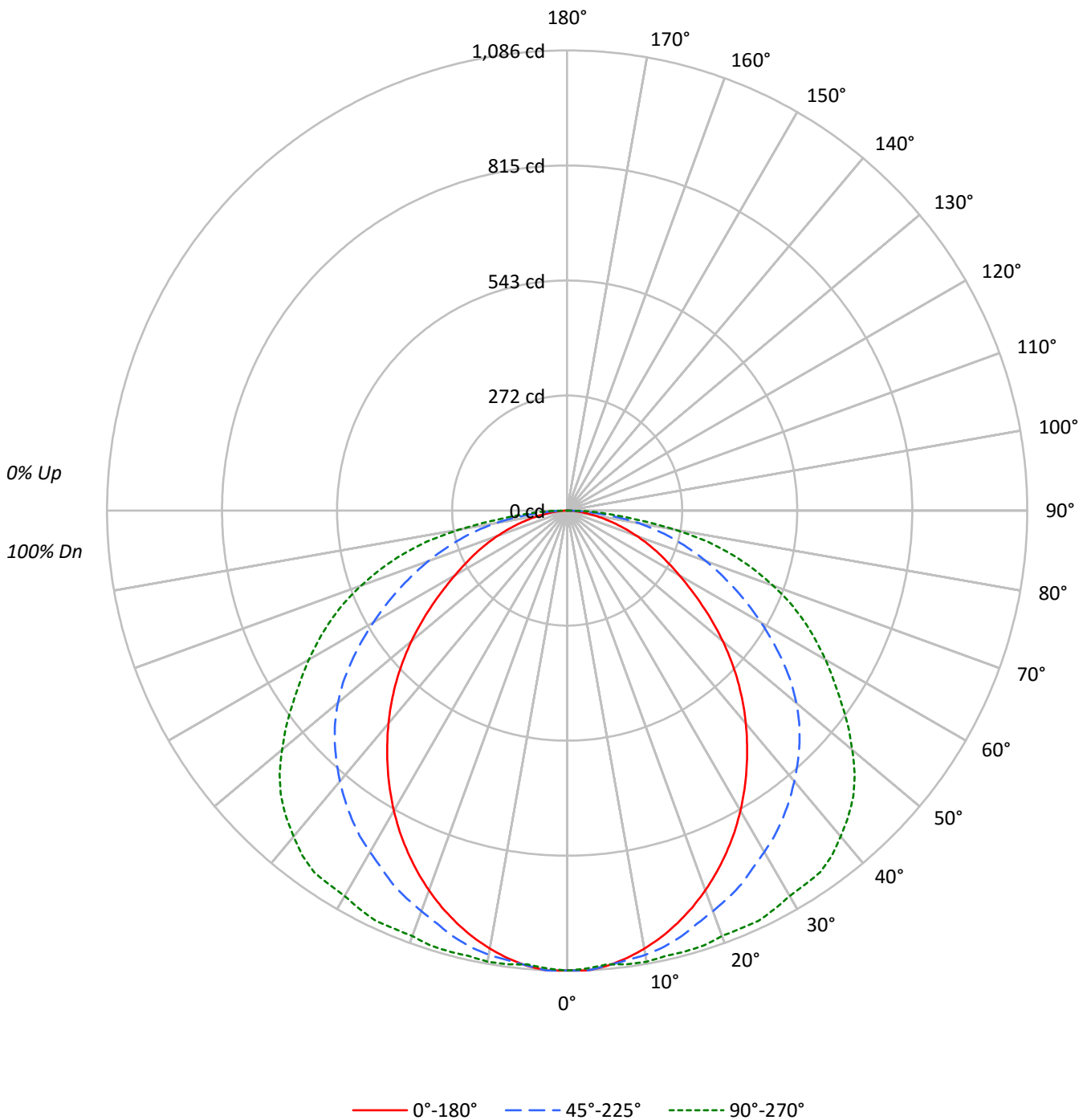
Input Watts (W): 69  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	89	89	89	89	87	87	87	87	83	83	83	79	79	79	76	76	76	74						74														
1	81	77	73	70	79	75	72	69	72	69	67	69	67	65	66	65	63	61						61														
2	73	67	61	57	71	65	60	56	62	58	55	60	57	54	58	55	52	51						51														
3	66	58	52	47	64	57	51	46	55	50	46	53	48	45	51	47	44	42						42														
4	61	51	45	39	59	50	44	39	48	43	39	47	42	38	45	41	38	36						36														
5	56	46	39	34	54	45	38	34	43	38	33	42	37	33	40	36	32	31						31														
6	51	41	34	29	50	40	34	29	39	33	29	38	33	29	37	32	28	27						27														
7	48	37	31	26	46	37	30	26	35	30	26	34	29	25	33	29	25	24						24														
8	44	34	27	23	43	33	27	23	32	27	23	31	26	23	31	26	22	21						21														
9	41	31	25	21	40	31	25	21	30	24	20	29	24	20	28	24	20	19						19														
10	39	29	23	19	38	28	23	19	28	22	19	27	22	18	26	22	18	17						17														

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1665	1665	1665
5°	1661	1660	1656
10°	1635	1658	1684
15°	1601	1652	1711
20°	1557	1642	1744
25°	1506	1647	1809
30°	1449	1648	1860
35°	1383	1661	1951
40°	1314	1670	2011
45°	1237	1682	2072
50°	1145	1686	2096
55°	1039	1663	2112
60°	937	1621	2160
65°	863	1585	2239
70°	782	1560	2317
75°	683	1549	2397
80°	557	1525	2266
85°	405	1160	1778



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	102.6	3.1	2.3
10°-20°	293.8	8.9	6.6
20°-30°	449.7	13.6	10.1
30°-40°	555.3	16.8	12.5
40°-50°	592.0	17.9	13.3
50°-60°	541.4	16.3	12.2
60°-70°	426.4	12.9	9.6
70°-80°	273.6	8.3	6.1
80°-90°	79.3	2.4	1.8
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°	846.0	25.5	19.0
0°-40°	1401.3	42.3	31.5
0°-60°	2534.8	76.5	57.0
0°-90°	3314.1	100.0	74.5
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°	3314.1	100.0	74.5

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1085	1085	1085	1085	1085	
5°	1079	1080	1078	1080	1075	102
15°	1008	1013	1040	1066	1077	284
25°	890	914	973	1037	1069	409
35°	739	784	887	989	1042	462
45°	570	634	775	901	955	439
55°	389	468	622	744	790	348
65°	238	293	437	564	617	236
75°	115	153	261	368	404	123
85°	23	42	66	93	101	28
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1085.3	1085.3	1085.3	1085.3	1085.3
2.5°	1086.3	1085.6	1086.5	1086.2	1081.8
5°	1078.6	1080.3	1077.9	1080.0	1075.1
7.5°	1066.2	1067.2	1070.5	1080.1	1080.0
10°	1049.9	1049.2	1064.6	1078.6	1081.0
12.5°	1030.5	1031.3	1054.7	1073.8	1076.5
15°	1007.8	1012.8	1040.4	1065.6	1077.2
17.5°	982.1	992.5	1021.9	1060.1	1075.9
20°	953.6	969.6	1005.8	1052.8	1068.5
22.5°	922.9	943.6	990.6	1041.9	1067.7
25°	890.0	914.4	973.0	1037.1	1068.7
27.5°	855.1	883.1	950.4	1029.8	1060.1
30°	818.1	849.4	930.2	1015.6	1050.3
32.5°	778.9	816.8	910.7	999.2	1046.0
35°	738.7	784.5	887.1	989.0	1041.7
37.5°	697.5	749.8	861.5	978.6	1026.2
40°	656.1	712.3	834.0	957.8	1004.1
42.5°	613.5	672.8	805.7	931.1	981.5
45°	570.1	633.7	775.3	900.9	954.9
47.5°	525.3	594.2	743.0	869.0	920.6
50°	479.9	554.2	706.5	832.3	878.3
52.5°	434.0	512.4	666.5	788.0	835.6
55°	388.6	468.3	621.7	743.5	789.6
57.5°	345.2	423.3	575.5	696.7	745.7
60°	305.5	378.3	528.3	651.5	704.0
62.5°	270.5	335.1	482.2	608.1	660.8
65°	237.7	293.4	436.6	564.2	616.8
67.5°	206.0	254.5	392.1	519.9	569.6
70°	174.4	218.3	347.9	473.1	516.7
72.5°	144.0	184.6	304.4	422.4	463.3
75°	115.3	152.8	261.4	368.4	404.5
77.5°	88.2	123.3	217.6	310.1	339.9
80°	63.0	95.5	172.6	240.1	256.5
82.5°	40.9	68.7	119.8	158.5	167.2
85°	23.0	41.5	65.9	92.8	101.0
87.5°	8.4	13.3	28.7	46.2	53.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)