

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: 24511

Luminaire Tested: **IB-WM-1T5**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 24511
Test Lab: LIGHTING SCIENCES, INC.
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: IB-WM-1T5
Description: WHITE INTERIOR AND LINEAR MICRO PRISMATIC FLAT PLASTIC LENS WITH PRISMS DOWN
Light Source: ONE PHILIPS 54 WATT T5 LAMP

F54T5/835HO. LUMEN RATING = 4500 LMS.

Ballast/Driver: -

Summary

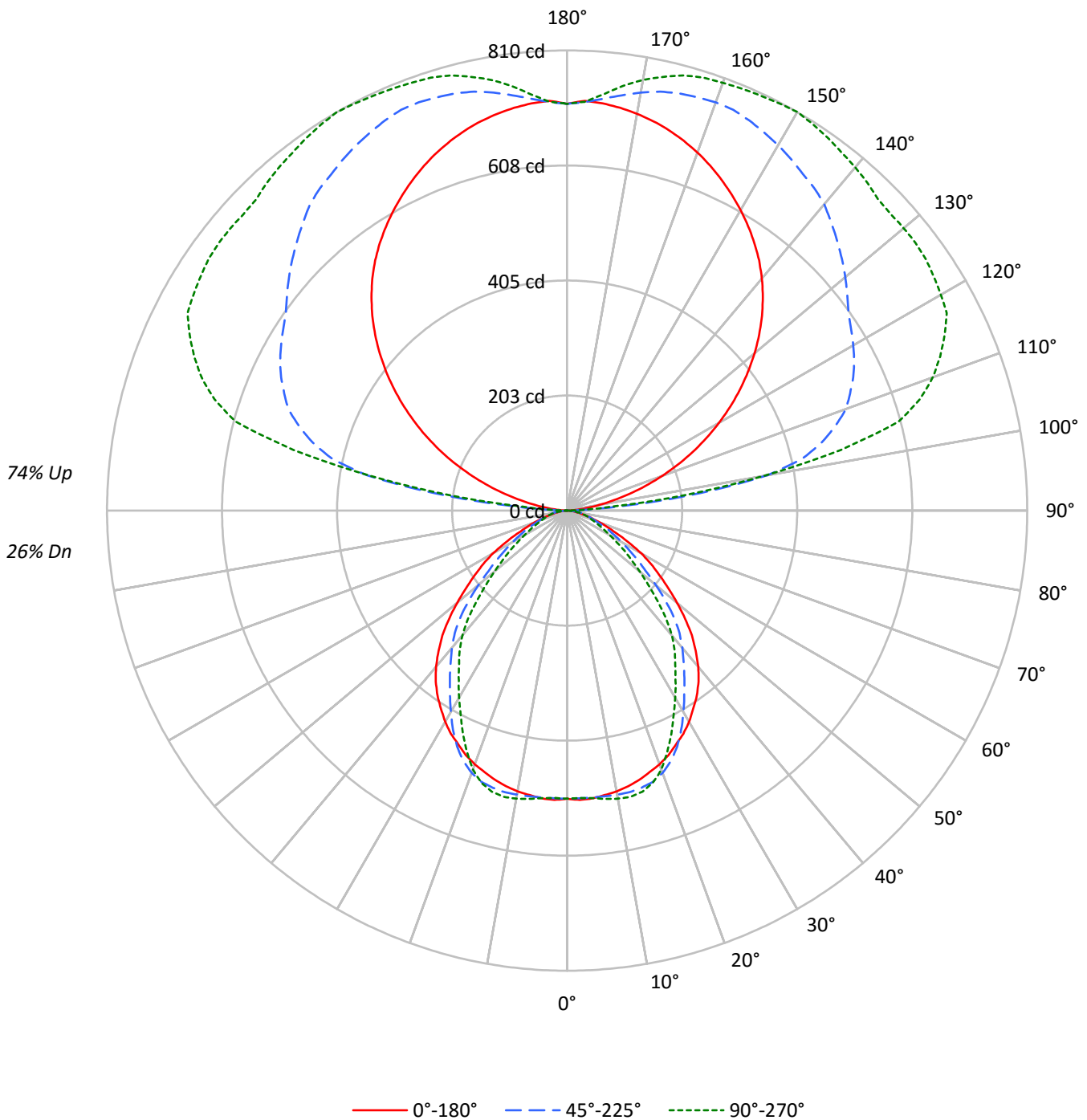
Lumens per Lamp: 4500 (1 lamp)
Luminaire Lumens: 4277.4 lumens
Efficiency: 95.1%
Efficacy: 71.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.13 / 1.25
Luminous Opening: Rectangular (W 0.23' x L: 3.58' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 60
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	96	96	96	96	86	86	86	86	66	66	66	49	49	49	32	32	32	24																				
1	88	84	81	78	78	75	73	70	59	57	55	43	42	41	29	28	28	21																				
2	80	74	69	64	72	66	62	58	52	49	46	38	36	35	26	25	24	18																				
3	74	65	59	54	65	59	53	49	46	42	39	34	32	30	23	22	21	16																				
4	67	58	51	46	60	52	46	41	41	37	33	31	28	26	21	19	18	14																				
5	62	52	44	39	55	46	40	36	37	32	29	27	25	22	19	17	16	12																				
6	57	46	39	34	51	42	35	31	33	29	25	25	22	20	17	16	14	11																				
7	53	42	35	30	47	38	31	27	30	25	22	23	20	17	16	14	13	10																				
8	49	38	31	26	43	34	28	24	27	23	20	21	18	15	15	13	11	9																				
9	45	34	28	23	40	31	25	21	25	21	18	19	16	14	13	12	10	8																				
10	42	31	25	21	38	28	23	19	23	19	16	18	15	13	12	11	9	7																				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6630	6630	6630
5°	6674	6650	6665
10°	6661	6738	6836
15°	6642	6836	6933
20°	6612	6833	6748
25°	6546	6609	6261
30°	6480	6180	5747
35°	6348	5740	5295
40°	6126	5381	4894
45°	5737	4914	4156
50°	5137	4141	3396
55°	4517	3435	2794
60°	3935	2899	2267
65°	3025	2456	1918
70°	2332	2033	1758
75°	1732	1859	1737
80°	1310	1814	1641
85°	1035	1560	1440



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	48.5	1.1	1.1
10°-20°	141.7	3.3	3.1
20°-30°	207.3	4.8	4.6
30°-40°	227.0	5.3	5.0
40°-50°	203.1	4.7	4.5
50°-60°	140.7	3.3	3.1
60°-70°	80.6	1.9	1.8
70°-80°	39.7	0.9	0.9
80°-90°	11.3	0.3	0.3
90°-100°	121.6	2.8	2.7
100°-110°	427.8	10.0	9.5
110°-120°	519.7	12.2	11.5
120°-130°	531.8	12.4	11.8
130°-140°	506.0	11.8	11.2
140°-150°	445.0	10.4	9.9
150°-160°	343.2	8.0	7.6
160°-170°	212.6	5.0	4.7
170°-180°	69.8	1.6	1.6
0°-30°	397.5	9.3	8.8
0°-40°	624.6	14.6	13.9
0°-60°	968.3	22.6	21.5
0°-90°	1099.9	25.7	24.4
90°-120°	1069.1	25.0	23.8
90°-150°	2551.8	59.7	56.7
90°-180°	3177.0	74.3	70.6
0°-180°	4277.4	100.0	95.1

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	507	507	507	507	507	
5°	509	506	507	510	508	48
15°	491	494	505	514	512	138
25°	454	463	458	444	434	209
35°	398	386	360	342	332	248
45°	310	290	266	236	225	238
55°	198	183	151	129	123	178
65°	98	95	79	67	62	100
75°	34	42	37	36	34	38
85°	7	12	10	10	10	8
90°	0	0	0	0	0	1
95°	18	122	109	90	80	23
105°	114	282	464	572	604	121
115°	244	369	556	692	733	241
125°	371	472	604	726	771	331
135°	485	568	672	746	774	374
145°	575	647	723	781	800	360
155°	643	699	758	791	806	296
165°	693	719	760	782	793	196
175°	719	718	728	731	736	68
180°	716	716	716	716	716	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	507.2	507.2	507.2	507.2	507.2
2.5°	509.8	506.8	506.9	508.3	506.3
5°	508.6	505.6	506.8	509.8	507.9
7.5°	505.2	504.1	507.3	513.6	511.9
10°	501.8	501.3	507.6	515.3	515.0
12.5°	497.1	497.6	507.6	516.0	516.0
15°	490.8	494.1	505.1	514.1	512.3
17.5°	482.8	488.6	500.9	504.1	502.3
20°	475.3	482.3	491.2	490.1	485.1
22.5°	465.9	472.8	477.4	468.4	460.1
25°	453.8	462.6	458.2	444.1	434.1
27.5°	443.0	448.1	434.9	416.6	405.7
30°	429.3	430.1	409.4	389.7	380.7
32.5°	413.3	409.7	383.8	365.0	355.1
35°	397.8	386.1	359.7	342.0	331.8
37.5°	379.7	361.5	336.9	319.9	311.0
40°	359.0	336.1	315.3	295.6	286.8
42.5°	335.1	312.2	292.6	267.4	257.8
45°	310.3	289.7	265.8	235.5	224.8
47.5°	281.5	267.1	234.9	203.4	193.5
50°	252.6	241.3	203.6	175.0	167.0
52.5°	224.1	212.1	174.3	151.2	142.5
55°	198.2	183.4	150.7	128.6	122.6
57.5°	175.0	157.9	129.0	110.2	103.3
60°	150.5	133.1	110.9	92.8	86.7
62.5°	122.6	113.5	93.4	77.8	74.3
65°	97.8	95.2	79.4	66.7	62.0
67.5°	77.2	78.0	64.7	55.6	53.6
70°	61.0	65.6	53.2	47.5	46.0
72.5°	46.5	52.4	44.0	41.0	39.8
75°	34.3	42.1	36.8	35.6	34.4
77.5°	24.3	32.8	30.6	28.0	28.2
80°	17.4	23.9	24.1	22.1	21.8
82.5°	11.6	17.5	17.6	16.4	15.6
85°	6.9	11.6	10.4	9.6	9.6
87.5°	3.2	4.2	4.4	4.4	4.1
90°	0.0	0.0	0.0	0.0	0.0
92.5°	4.3	33.0	19.6	16.1	15.1
95°	17.9	122.2	108.8	90.2	80.5
97.5°	36.3	185.9	236.0	220.8	211.1
100°	58.6	224.4	358.5	358.9	353.0
102.5°	84.6	254.8	425.2	491.5	493.6
105°	113.5	281.9	464.2	572.0	603.7
107.5°	144.6	303.4	494.9	613.4	650.7
110°	177.2	322.8	522.3	643.8	684.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	210.1	344.7	539.0	669.0	710.8
115°	243.6	369.3	555.5	691.8	733.4
117.5°	276.3	394.6	569.7	704.1	753.3
120°	308.6	420.6	581.7	713.1	759.8
122.5°	340.1	447.0	592.7	721.0	765.5
125°	371.3	472.5	604.5	726.4	770.9
127.5°	401.3	495.0	621.7	729.8	773.3
130°	430.6	520.0	639.3	732.2	773.4
132.5°	458.4	544.3	655.9	736.2	772.6
135°	484.9	568.0	672.1	746.3	774.4
137.5°	509.9	590.8	688.0	756.3	782.4
140°	533.3	612.5	704.0	765.1	788.9
142.5°	555.0	631.8	715.0	771.5	794.1
145°	574.8	647.4	723.3	780.9	800.5
147.5°	593.3	662.2	733.6	788.2	805.7
150°	610.7	676.6	742.8	790.3	810.2
152.5°	627.2	688.6	750.4	790.2	808.2
155°	642.8	699.4	757.9	791.4	805.8
157.5°	657.5	707.8	763.7	790.7	804.0
160°	670.6	713.3	764.5	790.3	801.3
162.5°	682.6	716.8	762.6	789.5	799.0
165°	693.1	719.1	760.3	782.0	793.0
167.5°	702.0	719.8	755.4	773.0	782.1
170°	709.2	719.9	747.2	762.8	769.8
172.5°	715.1	719.3	737.3	747.0	754.1
175°	719.4	717.8	727.6	731.4	735.5
177.5°	721.9	716.4	719.6	718.1	720.1
180°	716.0	716.0	716.0	716.0	716.0

(END OF REPORT)