

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: 24835

Luminaire Tested: **E2-WM-2T5**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 24835
Test Lab: LIGHTING SCIENCES, INC.
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: E2-WM-2T5
Description: WITH WHITE INTERIOR AND MICRO PRISMATIC FLAT PLASTIC LENS PRISMS
DOWN
Light Source: TWO PHILIPS 54 WATT T5 LAMPS

F54T5/835HO. LUMEN RATING = 4500 LMS.

Ballast/Driver: -

Summary

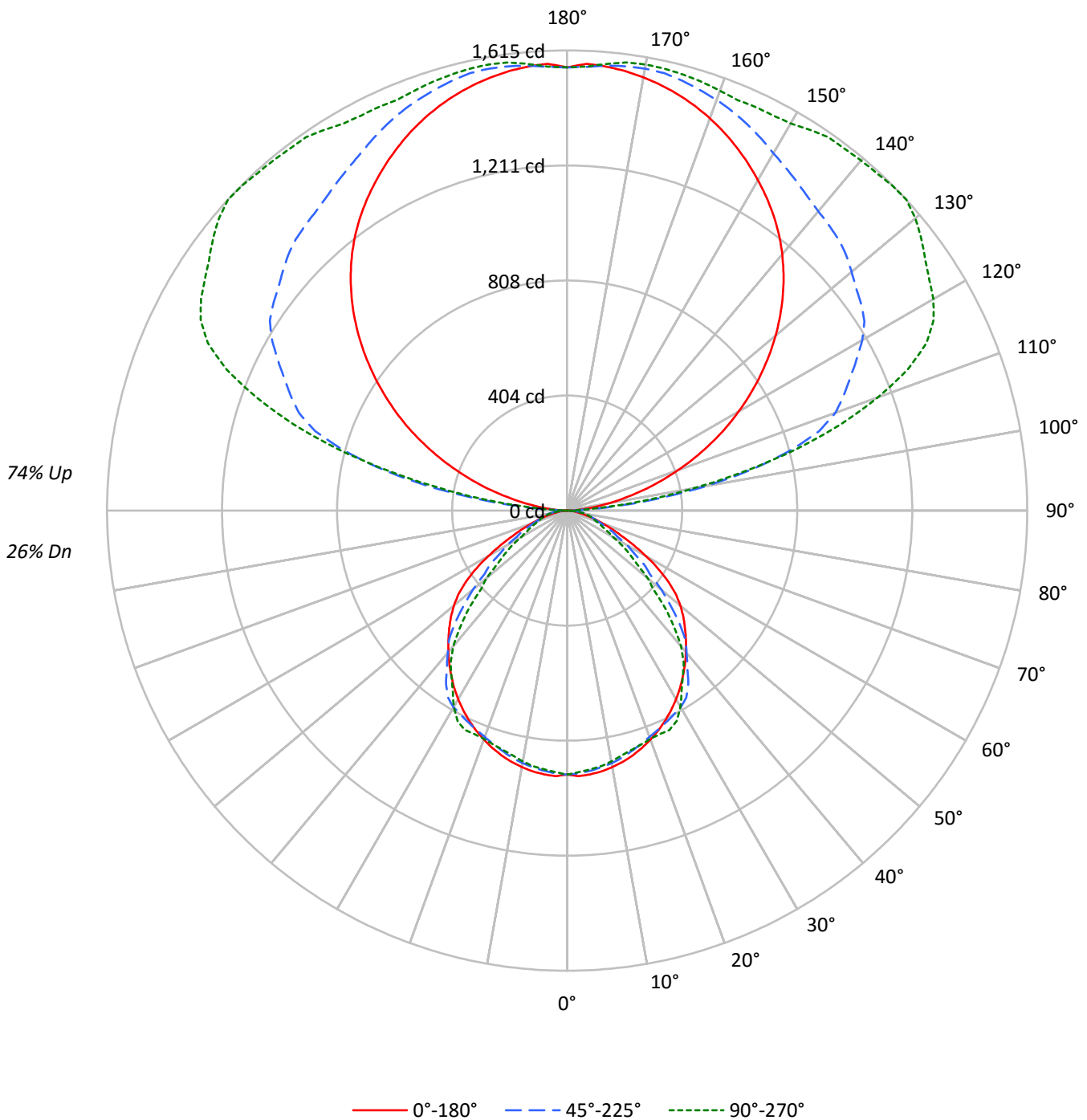
Lumens per Lamp: 4500 (2 lamps)
Luminaire Lumens: 8384.4 lumens
Efficiency: 93.2%
Efficacy: 73.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.25 / 1.32
Luminous Opening: Rectangular (W 0.24' x L: 3.58' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 114
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									
RC	80									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	95	95	95	95	84	84	84	84	65	65	65	48	48	48	32	32	32	24																			
1	86	83	79	76	77	74	71	68	57	56	54	42	41	40	28	28	27	21																			
2	79	72	67	62	70	65	60	56	51	48	45	37	36	34	25	24	23	18																			
3	72	64	57	52	64	57	52	47	45	41	38	33	31	29	23	21	20	15																			
4	66	56	49	44	59	51	45	40	40	36	32	30	27	25	20	19	17	13																			
5	60	50	43	38	54	45	39	34	36	31	28	27	24	22	18	17	15	12																			
6	56	45	38	33	49	40	34	30	32	28	24	24	21	19	17	15	13	10																			
7	51	40	33	29	46	36	30	26	29	25	21	22	19	17	15	13	12	9																			
8	47	37	30	25	42	33	27	23	26	22	19	20	17	15	14	12	11	8																			
9	44	33	27	22	39	30	24	20	24	20	17	18	15	13	13	11	10	8																			
10	41	30	24	20	37	28	22	18	22	18	15	17	14	12	12	10	9	7																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11606	11606	11606
5°	11687	11536	11468
10°	11630	11449	11373
15°	11534	11333	11281
20°	11401	11269	11368
25°	11245	11339	11743
30°	11061	11531	11499
35°	10840	11339	10826
40°	10604	10666	10171
45°	10370	9829	8688
50°	10111	8406	7203
55°	9427	7203	5871
60°	8023	6066	4650
65°	6299	5208	4153
70°	4905	4388	3938
75°	3751	4313	4172
80°	2857	4624	4408
85°	2300	4628	4168



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	87.2	1.0	1.0
10°-20°	247.8	3.0	2.8
20°-30°	380.6	4.5	4.2
30°-40°	451.7	5.4	5.0
40°-50°	419.6	5.0	4.7
50°-60°	298.7	3.6	3.3
60°-70°	175.1	2.1	1.9
70°-80°	93.1	1.1	1.0
80°-90°	31.2	0.4	0.3
90°-100°	179.8	2.1	2.0
100°-110°	714.2	8.5	7.9
110°-120°	1021.0	12.2	11.3
120°-130°	1083.4	12.9	12.0
130°-140°	1032.6	12.3	11.5
140°-150°	890.6	10.6	9.9
150°-160°	689.2	8.2	7.7
160°-170°	439.1	5.2	4.9
170°-180°	149.5	1.8	1.7
0°-30°	715.6	8.5	8.0
0°-40°	1167.3	13.9	13.0
0°-60°	1885.7	22.5	21.0
0°-90°	2185.0	26.1	24.3
90°-120°	1914.9	22.8	21.3
90°-150°	4921.6	58.7	54.7
90°-180°	6199.0	73.9	68.9
0°-180°	8384.4	100.0	93.2

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	926	926	926	926	926	
5°	929	922	917	918	912	88
15°	889	881	874	874	870	251
25°	814	812	820	842	850	375
35°	709	726	741	716	708	443
45°	585	586	555	498	490	451
55°	432	369	330	278	269	381
65°	212	203	176	148	140	215
75°	78	89	89	89	86	85
85°	16	29	32	30	29	18
90°	0	0	0	0	0	3
95°	54	176	162	128	118	64
105°	275	554	807	833	832	293
115°	556	761	1094	1323	1392	550
125°	828	931	1260	1466	1534	740
135°	1071	1124	1347	1532	1613	825
145°	1264	1306	1407	1538	1599	790
155°	1407	1451	1496	1534	1563	649
165°	1511	1531	1562	1573	1583	426
175°	1564	1556	1568	1568	1573	149
180°	1555	1555	1555	1555	1555	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	926.4	926.4	926.4	926.4	926.4
2.5°	933.0	925.5	923.0	923.6	919.1
5°	929.3	921.5	917.3	917.5	911.9
7.5°	923.3	914.7	909.0	909.6	905.2
10°	914.2	905.2	900.0	898.8	894.0
12.5°	903.0	894.2	888.5	886.2	880.3
15°	889.3	881.3	873.8	874.0	869.8
17.5°	873.2	866.4	859.6	862.0	861.1
20°	855.2	850.4	845.3	853.0	852.7
22.5°	835.3	832.0	832.8	846.1	849.1
25°	813.5	811.8	820.3	842.0	849.5
27.5°	789.9	791.1	808.1	835.7	832.7
30°	764.6	769.4	797.1	806.0	794.9
32.5°	737.5	747.1	778.3	760.6	747.6
35°	708.8	725.9	741.4	716.3	707.9
37.5°	679.2	703.3	693.1	679.8	671.6
40°	648.4	675.5	652.2	636.9	621.9
42.5°	617.0	634.9	613.5	578.6	555.6
45°	585.3	586.5	554.8	498.3	490.4
47.5°	553.0	539.6	490.7	446.1	411.0
50°	518.8	489.0	431.3	373.2	369.6
52.5°	479.7	421.9	365.6	335.8	308.4
55°	431.6	369.4	329.8	278.2	268.8
57.5°	377.3	327.2	277.2	244.4	231.3
60°	320.2	276.3	242.1	207.8	185.6
62.5°	262.5	235.0	199.1	168.1	161.0
65°	212.5	202.8	175.7	148.0	140.1
67.5°	170.4	167.2	142.0	127.4	122.3
70°	133.9	138.2	119.8	110.8	107.5
72.5°	103.4	111.9	101.3	99.5	96.7
75°	77.5	89.0	89.1	89.0	86.2
77.5°	56.7	69.8	77.3	76.9	74.5
80°	39.6	53.4	64.1	63.0	61.1
82.5°	26.8	41.5	49.4	47.3	45.8
85°	16.0	28.7	32.2	29.9	29.0
87.5°	7.2	14.9	15.2	14.7	14.5
90°	0.0	0.0	0.0	0.0	0.0
92.5°	17.0	54.3	39.3	29.6	28.9
95°	53.6	176.4	162.3	128.2	118.2
97.5°	98.7	309.0	318.8	289.4	282.8
100°	151.3	419.6	494.6	461.1	450.8
102.5°	210.4	491.3	660.8	649.3	640.6
105°	274.7	554.2	807.1	832.6	832.0
107.5°	343.0	621.4	926.7	995.4	1007.0
110°	413.4	672.2	1001.3	1137.2	1159.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	484.7	713.1	1049.9	1252.9	1293.9
115°	555.9	761.3	1094.5	1323.4	1391.8
117.5°	626.5	807.7	1144.6	1367.9	1449.9
120°	695.5	848.4	1195.6	1397.3	1483.8
122.5°	762.7	886.8	1237.2	1429.0	1507.5
125°	828.4	930.6	1260.1	1465.8	1534.3
127.5°	892.8	978.3	1278.9	1500.5	1566.8
130°	954.9	1025.4	1303.1	1525.8	1595.4
132.5°	1014.5	1073.8	1328.0	1532.7	1614.8
135°	1071.0	1123.7	1346.9	1532.5	1613.2
137.5°	1124.6	1172.7	1359.1	1536.7	1606.9
140°	1174.5	1219.8	1371.2	1542.4	1604.3
142.5°	1221.0	1266.7	1387.2	1541.9	1600.1
145°	1263.7	1306.1	1407.1	1538.0	1598.9
147.5°	1302.6	1348.7	1427.2	1529.1	1584.7
150°	1339.1	1383.6	1448.1	1530.4	1568.8
152.5°	1374.4	1419.0	1472.5	1533.3	1563.6
155°	1407.0	1450.8	1495.8	1534.1	1563.0
157.5°	1437.4	1478.4	1516.1	1542.4	1560.1
160°	1465.3	1499.9	1533.7	1555.5	1567.8
162.5°	1489.6	1517.4	1548.0	1565.6	1576.9
165°	1510.8	1531.1	1561.7	1573.2	1582.9
167.5°	1528.9	1541.9	1572.5	1579.4	1588.0
170°	1544.0	1550.7	1575.0	1583.7	1589.4
172.5°	1555.9	1555.8	1572.6	1578.3	1586.4
175°	1564.2	1556.4	1567.5	1568.3	1573.3
177.5°	1569.4	1555.8	1558.8	1555.5	1559.7
180°	1555.1	1555.1	1555.1	1555.1	1555.1

(END OF REPORT)