

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: 20541

Luminaire Tested: **IQ-WB-3T5**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 20541
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: IQ-WB-3T5
Description: DIRECT/INDIRECT SUSPENDED LUMINAIRE WITH WHITE INTERIOR WITH 36 CELL
WHITE PERF LOUVER
Light Source: THREE SYLVANIA 54 WATT T5 LAMPS

FP54/841/HO. LUMEN RATING = 4500 LMS.

Ballast/Driver: -

Summary

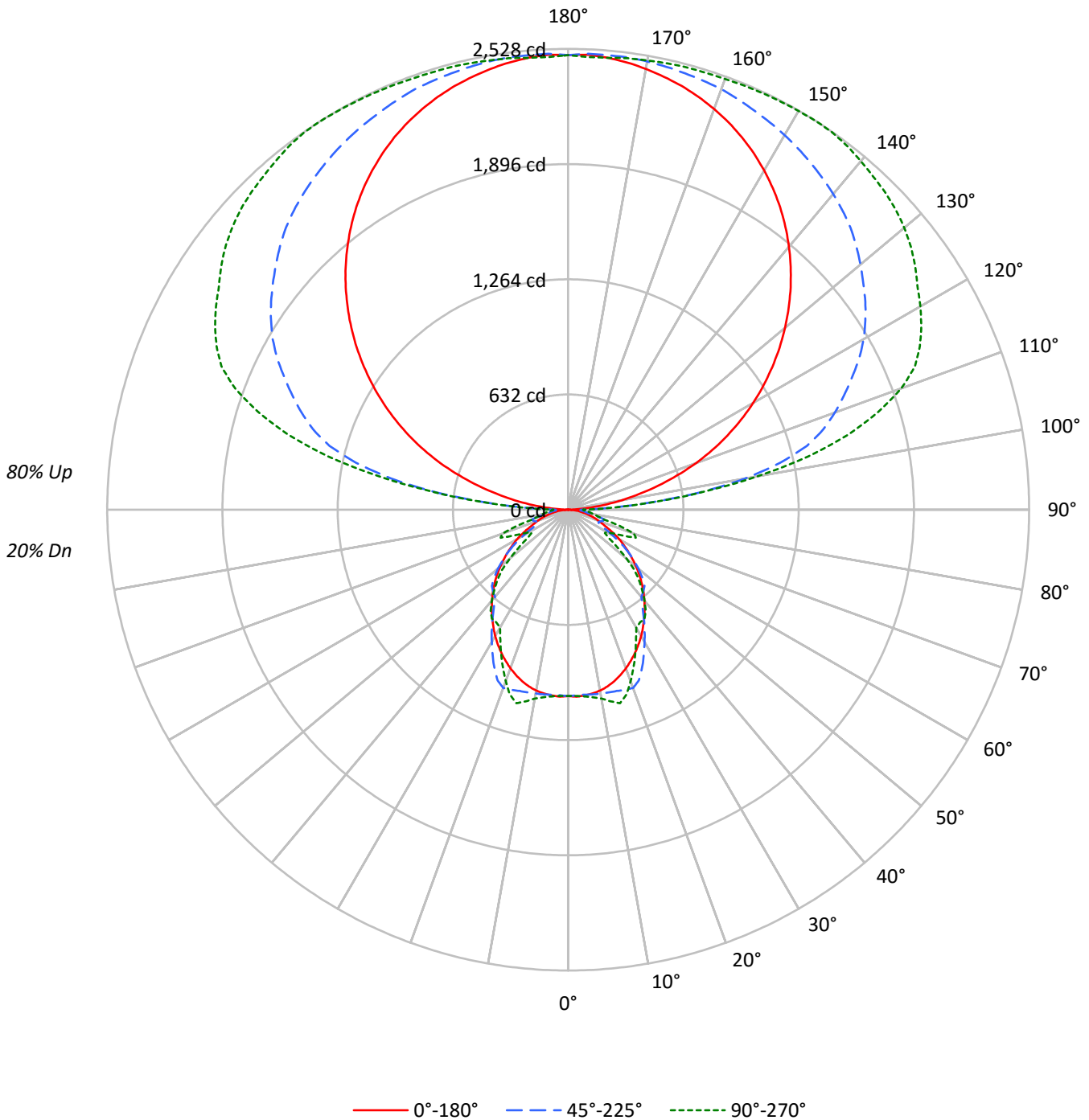
Lumens per Lamp: 4500 (3 lamps)
Luminaire Lumens: 12777.2 lumens
Efficiency: 94.6%
Efficacy: 71.8 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.11 / 1.26
Luminous Opening: Rectangular w/ Sides (W: 0.32' x L: 3.67' x H: 0.06')
CIE Type: Semi-Indirect

Input Watts (W): 178
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				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	95	95	95	95	84	84	84	84	63	63	63	44	44	44	27	27	27	19
1	86	82	79	75	76	73	70	67	55	53	51	39	38	37	24	23	23	16
2	78	72	66	62	69	64	59	55	48	45	43	34	32	31	21	20	19	13
3	72	63	56	51	63	56	50	46	43	39	36	30	28	26	19	17	16	11
4	65	56	49	43	58	49	44	39	38	34	30	27	24	22	17	15	14	10
5	60	49	42	37	53	44	38	33	34	29	26	24	21	19	15	14	12	9
6	55	44	37	32	48	39	33	29	30	26	23	22	19	17	14	12	11	8
7	51	40	33	28	45	35	29	25	27	23	20	20	17	15	12	11	10	7
8	47	36	29	24	41	32	26	22	25	21	17	18	15	13	11	10	9	6
9	44	33	26	21	39	29	23	19	23	18	16	16	14	12	11	9	8	6
10	41	30	23	19	36	27	21	17	21	17	14	15	12	10	10	8	7	5

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9371	9371	9371
5°	9401	9255	9305
10°	9349	9295	9473
15°	9203	9405	9930
20°	8975	9641	9141
25°	8698	9081	8098
30°	8390	8185	7133
35°	8041	7342	7216
40°	7671	6664	6739
45°	7275	6704	6012
50°	6809	6100	4880
55°	6285	5278	3428
60°	5729	4144	3391
65°	5016	3119	5219
70°	4555	3603	6778
75°	4135	4683	4071
80°	3739	3299	3640
85°	3119	3245	3513



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	97.7	0.8	0.7
10°-20°	289.9	2.3	2.1
20°-30°	416.9	3.3	3.1
30°-40°	463.3	3.6	3.4
40°-50°	445.0	3.5	3.3
50°-60°	332.0	2.6	2.5
60°-70°	259.8	2.0	1.9
70°-80°	186.7	1.5	1.4
80°-90°	85.6	0.7	0.6
90°-100°	452.1	3.5	3.3
100°-110°	1266.4	9.9	9.4
110°-120°	1627.0	12.7	12.1
120°-130°	1719.2	13.5	12.7
130°-140°	1651.4	12.9	12.2
140°-150°	1439.6	11.3	10.7
150°-160°	1108.9	8.7	8.2
160°-170°	697.8	5.5	5.2
170°-180°	237.7	1.9	1.8
0°-30°	804.5	6.3	6.0
0°-40°	1267.8	9.9	9.4
0°-60°	2044.8	16.0	15.1
0°-90°	2576.9	20.2	19.1
90°-120°	3345.6	26.2	24.8
90°-150°	8155.9	63.8	60.4
90°-180°	10200.0	79.8	75.6
0°-180°	12777.2	100.0	94.6

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1022	1022	1022	1022	1022	
5°	1023	1018	1019	1025	1028	97
15°	974	986	1029	1084	1099	274
25°	867	906	958	898	871	399
35°	727	810	722	714	730	454
45°	570	607	592	565	551	439
55°	402	420	398	309	272	360
65°	239	277	188	269	337	241
75°	124	123	203	208	195	132
85°	35	53	82	99	105	37
90°	0	42	69	80	81	6
95°	107	394	450	450	456	127
105°	512	944	1355	1534	1591	543
115°	964	1301	1717	2017	2128	952
125°	1367	1613	1989	2241	2323	1221
135°	1725	1884	2189	2385	2459	1331
145°	2026	2124	2321	2469	2525	1267
155°	2254	2304	2416	2492	2522	1039
165°	2406	2421	2478	2505	2512	679
175°	2489	2482	2503	2494	2488	237
180°	2494	2494	2494	2494	2494	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1022.4	1022.4	1022.4	1022.4	1022.4
2.5°	1026.8	1019.8	1019.3	1020.1	1023.0
5°	1023.3	1017.9	1018.6	1024.7	1028.0
7.5°	1017.2	1013.0	1021.7	1032.3	1038.0
10°	1007.4	1007.2	1024.1	1042.5	1051.5
12.5°	993.5	998.4	1026.5	1059.7	1076.5
15°	974.1	986.4	1029.4	1084.3	1099.1
17.5°	951.2	969.3	1035.7	1076.4	1062.7
20°	925.6	950.2	1040.3	1022.8	1001.1
22.5°	897.0	928.9	1012.3	961.5	936.5
25°	866.6	906.5	958.3	897.7	870.8
27.5°	834.5	884.7	897.7	834.7	805.3
30°	800.2	862.9	837.7	772.1	746.9
32.5°	763.9	838.8	779.5	717.7	732.9
35°	726.9	809.6	722.4	713.5	729.6
37.5°	688.9	764.7	669.0	706.3	698.4
40°	649.9	712.8	624.3	666.8	651.9
42.5°	610.4	659.6	609.9	617.7	600.3
45°	570.4	607.2	591.8	565.1	550.8
47.5°	528.6	556.3	550.2	513.3	494.1
50°	486.8	508.9	501.3	452.6	418.7
52.5°	444.3	461.9	449.9	379.5	342.9
55°	402.5	419.7	398.3	308.9	272.0
57.5°	362.1	383.9	341.8	246.1	238.2
60°	321.4	356.2	282.5	222.2	245.1
62.5°	280.9	321.0	227.3	234.1	285.7
65°	239.4	276.6	188.3	268.9	337.4
67.5°	203.6	231.8	179.4	311.7	401.0
70°	177.6	190.4	187.7	353.0	383.2
72.5°	150.6	153.3	201.7	292.3	293.4
75°	123.9	123.1	203.4	208.3	195.4
77.5°	99.5	102.0	153.2	155.3	163.1
80°	77.4	84.8	113.6	135.1	142.3
82.5°	56.2	68.5	96.8	117.1	123.6
85°	35.2	53.4	81.7	99.0	105.0
87.5°	12.0	41.4	67.6	83.6	88.2
90°	0.0	42.0	68.7	80.2	80.6
92.5°	34.4	183.2	204.4	208.8	226.4
95°	106.7	393.9	450.0	450.4	455.8
97.5°	195.4	583.7	728.4	738.0	744.6
100°	295.4	713.9	987.7	1040.5	1054.4
102.5°	401.7	824.8	1192.7	1314.2	1347.9
105°	512.1	944.3	1354.9	1533.9	1591.0
107.5°	626.9	1052.3	1468.0	1716.8	1782.6
110°	743.6	1137.3	1555.6	1859.0	1943.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	855.4	1216.7	1636.5	1951.0	2058.9
115°	964.3	1301.1	1716.6	2017.4	2128.2
117.5°	1068.9	1384.5	1798.9	2076.3	2183.2
120°	1170.7	1463.9	1871.2	2128.4	2230.1
122.5°	1269.9	1540.0	1932.6	2184.6	2271.8
125°	1366.7	1612.7	1989.1	2241.2	2323.3
127.5°	1461.2	1682.4	2040.6	2288.3	2369.7
130°	1552.6	1751.8	2092.2	2325.0	2406.0
132.5°	1640.5	1819.5	2142.4	2358.2	2436.9
135°	1725.0	1884.0	2189.3	2384.8	2459.4
137.5°	1806.6	1947.3	2227.0	2411.4	2477.4
140°	1883.4	2008.3	2261.1	2436.8	2496.2
142.5°	1956.8	2067.3	2292.0	2457.9	2514.4
145°	2025.8	2123.8	2320.9	2469.1	2525.4
147.5°	2089.7	2175.3	2348.5	2476.4	2527.7
150°	2149.1	2221.5	2373.2	2483.0	2526.0
152.5°	2204.2	2264.3	2395.0	2488.4	2524.2
155°	2254.3	2303.5	2415.7	2491.8	2521.7
157.5°	2299.6	2339.5	2436.7	2493.3	2518.8
160°	2339.6	2370.7	2455.2	2496.9	2514.7
162.5°	2375.1	2397.9	2467.0	2504.0	2512.8
165°	2406.3	2421.4	2477.8	2504.8	2512.1
167.5°	2432.3	2440.8	2488.7	2504.4	2507.8
170°	2455.3	2457.3	2497.2	2503.8	2502.1
172.5°	2474.9	2471.8	2502.5	2500.8	2497.9
175°	2488.9	2481.6	2502.7	2494.3	2488.5
177.5°	2498.1	2488.2	2503.8	2490.9	2484.7
180°	2493.7	2493.7	2493.7	2493.7	2493.7

(END OF REPORT)