

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: 20703

Luminaire Tested: **IQ-WB-2T5-DL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 20703
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: IQ-WB-2T5-DL2
Description: WHITE INTERIOR WITH WHITE PERF LOUVER AND SLIDE N LOCK WHITE REFLECTORS
Light Source: TWO SYLVANIA 54 WATT T5 LAMPS

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

Ballast/Driver: -

Summary

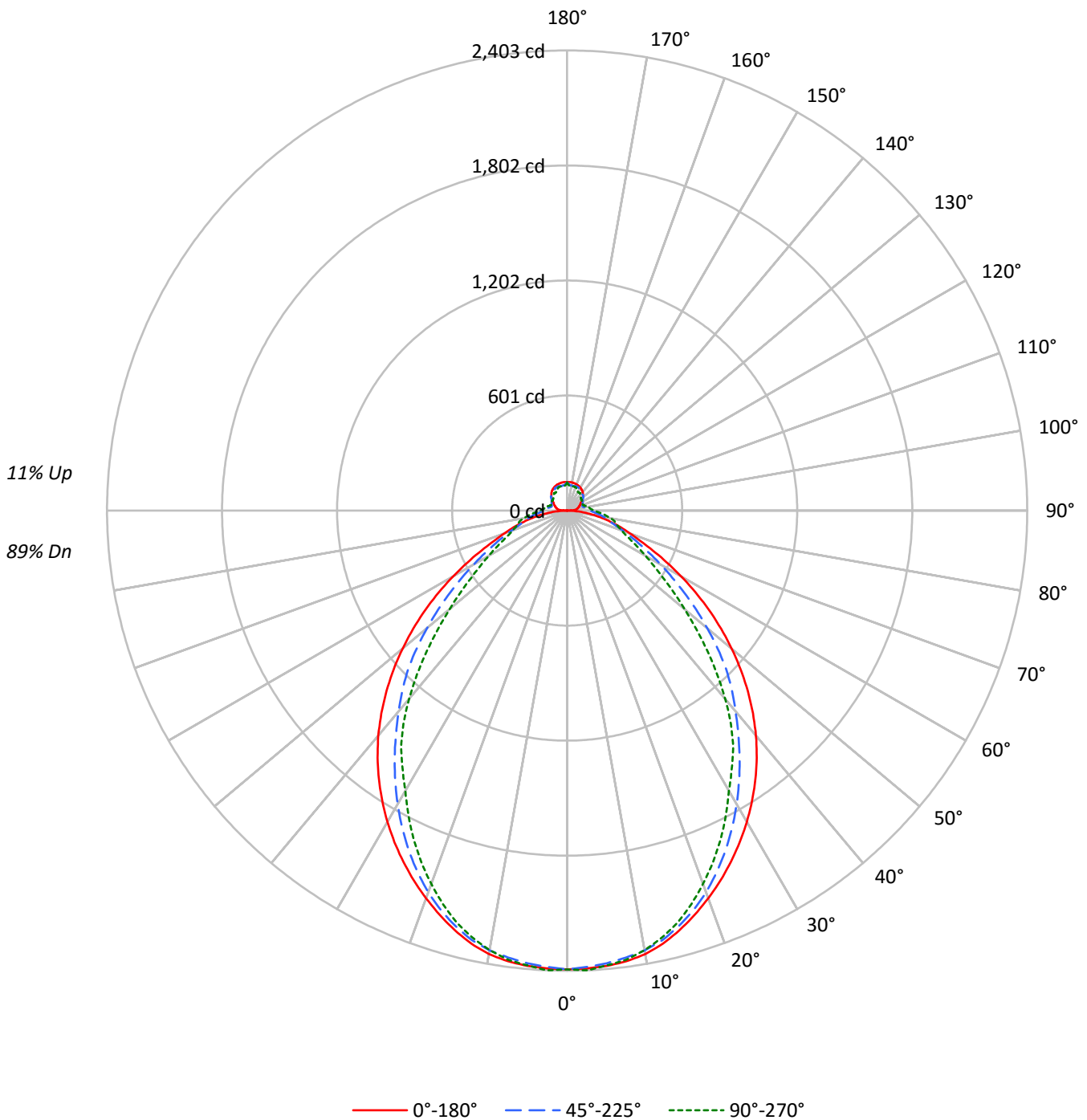
Lumens per Lamp: 4500 (2 lamps)
Luminaire Lumens: 5839.2 lumens
Efficiency: 64.9%
Efficacy: 54.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.08 / 1.2
Luminous Opening: Rectangular w/ Sides (W: 0.32' x L: 3.67' x H: 0.06')
CIE Type: Semi-Direct

Input Watts (W): 108
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	76	76	76	76	73	73	73	73	68	68	68	64	64	64	60	60	60	58
1	69	66	64	61	67	64	62	60	60	58	57	56	55	54	53	52	51	49
2	64	59	54	51	61	57	53	50	53	50	48	50	48	45	47	45	43	42
3	58	52	47	43	56	50	46	42	48	44	41	45	42	39	42	40	38	36
4	54	47	41	37	52	45	40	37	43	39	35	40	37	34	38	35	33	31
5	50	42	36	32	48	41	36	32	39	34	31	37	33	30	35	32	29	28
6	46	38	33	29	44	37	32	28	35	31	27	33	30	27	32	29	26	25
7	43	35	29	26	41	34	29	25	32	28	25	31	27	24	29	26	23	22
8	40	32	27	23	39	31	26	23	30	25	22	28	24	22	27	24	21	20
9	37	29	24	21	36	29	24	21	27	23	20	26	22	20	25	22	19	18
10	35	27	22	19	34	26	22	19	25	21	18	24	21	18	23	20	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	21959	21959	21959
5°	21924	21556	21582
10°	21821	21166	20996
15°	21432	20538	20132
20°	20889	19662	18945
25°	20314	18547	17628
30°	19679	17296	16141
35°	18958	15959	14954
40°	18107	14602	13286
45°	17014	13313	11292
50°	15696	11622	9345
55°	14105	9864	7699
60°	12250	8269	6541
65°	10319	6951	5694
70°	8961	6010	5338
75°	8140	5492	5502
80°	7265	5686	5896
85°	5945	6030	6069



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	225.7	3.9	2.5
10°-20°	631.7	10.8	7.0
20°-30°	900.8	15.4	10.0
30°-40°	994.6	17.0	11.1
40°-50°	907.9	15.5	10.1
50°-60°	679.4	11.6	7.5
60°-70°	435.9	7.5	4.8
70°-80°	265.4	4.5	2.9
80°-90°	153.2	2.6	1.7
90°-100°	105.0	1.8	1.2
100°-110°	88.2	1.5	1.0
110°-120°	87.2	1.5	1.0
120°-130°	88.0	1.5	1.0
130°-140°	87.5	1.5	1.0
140°-150°	77.1	1.3	0.9
150°-160°	60.5	1.0	0.7
160°-170°	38.2	0.7	0.4
170°-180°	13.1	0.2	0.1
0°-30°	1758.1	30.1	19.5
0°-40°	2752.8	47.1	30.6
0°-60°	4340.0	74.3	48.2
0°-90°	5194.6	89.0	57.7
90°-120°	280.4	4.8	3.1
90°-150°	532.9	9.1	5.9
90°-180°	645.0	11.0	7.2
0°-180°	5839.2	100.0	64.9

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2396	2396	2396	2396	2396	
5°	2386	2373	2372	2383	2384	227
15°	2269	2254	2248	2240	2228	639
25°	2024	1999	1957	1925	1896	932
35°	1714	1664	1570	1529	1512	1071
45°	1334	1280	1175	1079	1034	1027
55°	903	877	744	645	611	807
65°	492	504	420	382	368	497
75°	244	237	238	259	264	259
85°	67	100	152	178	181	72
90°	0	63	122	144	144	6
95°	41	66	113	129	120	35
105°	60	69	83	94	95	64
115°	76	84	90	96	91	75
125°	94	97	99	101	93	84
135°	118	118	116	111	100	90
145°	133	127	121	120	112	83
155°	142	128	135	130	120	66
165°	148	132	132	136	131	42
175°	150	141	135	133	131	14
180°	147	147	147	147	147	



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CATALOG NUMBER: IQ-WB-2T5-DL2

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2395.8	2395.8	2395.8	2395.8	2395.8
2.5°	2392.8	2380.8	2385.4	2398.4	2402.7
5°	2386.3	2373.1	2372.5	2382.9	2384.2
7.5°	2373.8	2357.7	2354.2	2363.5	2365.3
10°	2351.4	2334.3	2332.0	2333.7	2330.6
12.5°	2316.0	2299.6	2298.0	2290.0	2284.2
15°	2268.6	2253.8	2248.0	2239.8	2228.3
17.5°	2213.6	2200.4	2189.5	2172.3	2155.5
20°	2154.4	2140.4	2121.6	2096.1	2074.9
22.5°	2091.5	2072.9	2042.9	2013.9	1988.6
25°	2024.0	1999.4	1957.3	1924.7	1895.5
27.5°	1952.6	1921.4	1866.2	1828.3	1794.7
30°	1877.0	1840.0	1770.3	1723.7	1690.2
32.5°	1797.2	1754.2	1671.0	1619.6	1599.6
35°	1713.7	1663.5	1570.3	1528.8	1512.0
37.5°	1626.6	1569.3	1467.7	1435.0	1404.9
40°	1534.1	1473.3	1368.0	1323.3	1285.1
42.5°	1436.0	1376.7	1273.7	1202.5	1159.8
45°	1334.1	1279.5	1175.1	1079.1	1034.5
47.5°	1229.3	1180.4	1066.3	958.3	912.1
50°	1122.2	1079.6	955.1	842.9	801.8
52.5°	1013.2	978.3	847.4	738.6	700.8
55°	903.3	876.9	744.4	644.8	610.8
57.5°	794.0	777.6	650.7	559.1	536.4
60°	687.2	682.3	563.7	490.5	472.7
62.5°	586.4	589.8	486.0	432.7	417.7
65°	492.5	504.5	419.6	382.5	368.1
67.5°	412.8	426.5	362.1	338.4	329.4
70°	349.4	354.1	313.1	303.6	301.8
72.5°	295.6	290.2	271.3	278.5	280.3
75°	243.9	237.1	238.5	258.7	264.1
77.5°	194.6	190.7	215.2	245.0	254.0
80°	150.4	151.9	195.8	226.2	230.5
82.5°	109.2	122.2	174.9	201.9	205.7
85°	67.1	100.0	151.8	177.7	181.4
87.5°	23.6	78.5	130.6	155.9	158.5
90°	0.0	62.7	122.5	144.3	143.8
92.5°	20.6	68.0	118.2	135.4	129.6
95°	40.8	66.4	113.2	128.8	120.3
97.5°	49.0	62.7	105.7	124.1	116.7
100°	53.7	63.8	93.0	116.5	113.4
102.5°	56.8	67.2	86.6	105.2	106.1
105°	60.3	68.6	83.3	94.3	95.1
107.5°	63.7	70.4	83.4	94.9	91.6
110°	67.4	73.4	86.4	90.5	87.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	71.9	78.1	88.4	93.3	88.2
115°	75.5	84.5	90.1	96.0	91.4
117.5°	78.8	88.1	91.9	97.5	92.5
120°	83.3	91.2	93.3	98.4	92.8
122.5°	88.4	93.8	95.9	99.6	92.9
125°	94.1	97.3	99.1	100.8	93.4
127.5°	100.3	101.6	103.6	101.9	94.0
130°	106.0	106.9	110.6	104.0	95.0
132.5°	111.7	112.6	113.7	106.7	96.9
135°	117.5	118.1	115.7	110.9	99.6
137.5°	122.1	121.8	117.0	117.0	104.7
140°	126.2	124.5	117.4	118.9	110.4
142.5°	129.9	126.4	118.3	119.5	111.9
145°	132.8	127.4	120.9	119.6	112.4
147.5°	135.6	128.3	125.4	119.7	111.9
150°	138.2	128.6	130.0	120.7	112.6
152.5°	140.4	128.5	133.2	124.9	114.5
155°	142.2	128.5	134.7	130.5	120.3
157.5°	143.7	129.2	135.1	134.3	126.3
160°	145.2	130.7	134.9	136.2	129.5
162.5°	146.4	131.7	133.7	136.7	130.5
165°	147.7	132.4	131.7	135.7	130.8
167.5°	148.5	132.8	131.7	132.8	129.0
170°	149.0	134.4	132.7	131.8	128.5
172.5°	149.3	136.8	133.1	132.6	129.1
175°	149.6	140.8	135.2	133.1	130.7
177.5°	149.6	145.4	141.7	138.0	135.2
180°	147.4	147.4	147.4	147.4	147.4

(END OF REPORT)