

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: 20707

Luminaire Tested: **IQ-WB-2T5-DL6**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 20707
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: IQ-WB-2T5-DL6
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

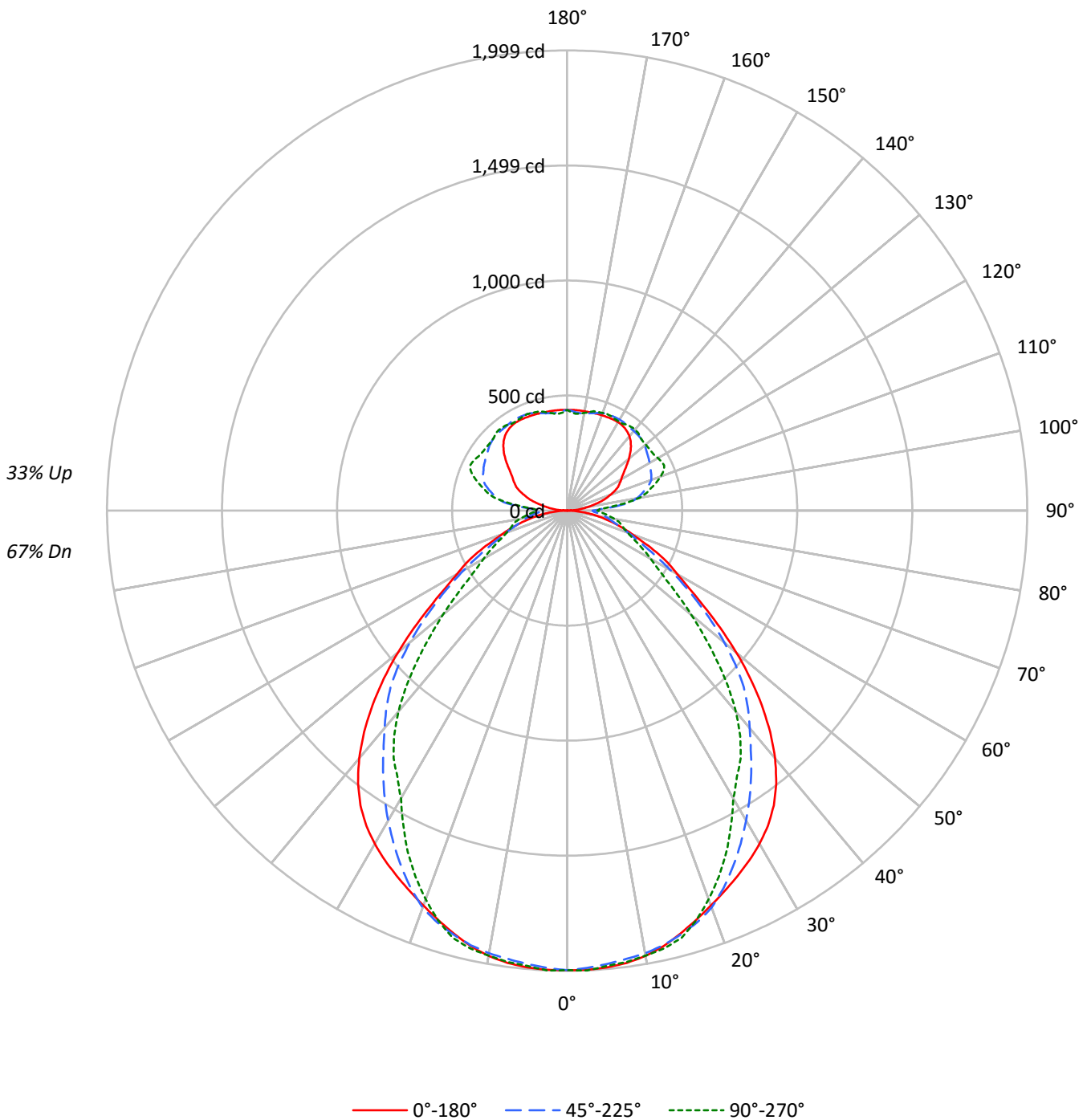
Lumens per Lamp: 4500 (2 lamps)
Luminaire Lumens: 6824.5 lumens
Efficiency: 75.8%
Efficacy: 59.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.1 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.32' x L: 3.67' x H: 0.06')
CIE Type: Semi-Direct

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				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	84	84	84	84	79	79	79	79	70	70	70	62	62	62	54	54	54	51
1	77	74	71	68	73	70	67	65	62	60	58	55	53	52	48	47	46	43
2	71	65	60	56	66	61	57	54	55	52	49	49	46	44	43	41	40	37
3	65	57	52	47	61	54	49	45	49	45	42	43	40	38	38	36	34	32
4	59	51	45	41	56	49	43	39	44	39	36	39	36	33	35	32	30	27
5	55	46	40	35	52	44	38	34	39	35	31	35	32	29	32	29	26	24
6	51	41	35	31	48	39	34	30	36	31	28	32	28	25	29	26	23	21
7	47	38	32	27	44	36	30	26	32	28	25	29	26	23	26	23	21	19
8	44	34	28	24	41	33	27	24	30	25	22	27	23	20	24	21	19	17
9	41	32	26	22	39	30	25	21	27	23	20	25	21	18	23	19	17	16
10	38	29	23	20	36	28	23	19	25	21	18	23	19	17	21	18	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18301	18301	18301
5°	18299	17965	17973
10°	18232	17722	17686
15°	17974	17420	17358
20°	17701	17008	16408
25°	17577	16164	15227
30°	17526	15195	13791
35°	17308	14170	12998
40°	16590	13161	11791
45°	15244	12286	10027
50°	13421	10848	8201
55°	11316	9162	6626
60°	9835	7601	5792
65°	8957	6260	5242
70°	7699	5444	4929
75°	7046	5004	5106
80°	6299	5137	5344
85°	5192	5398	5474



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	188.5	2.8	2.1
10°-20°	536.6	7.9	6.0
20°-30°	781.6	11.5	8.7
30°-40°	886.4	13.0	9.8
40°-50°	824.2	12.1	9.2
50°-60°	598.4	8.8	6.6
60°-70°	386.0	5.7	4.3
70°-80°	238.9	3.5	2.7
80°-90°	137.4	2.0	1.5
90°-100°	189.7	2.8	2.1
100°-110°	331.3	4.9	3.7
110°-120°	373.0	5.5	4.1
120°-130°	360.8	5.3	4.0
130°-140°	336.7	4.9	3.7
140°-150°	281.9	4.1	3.1
150°-160°	207.7	3.0	2.3
160°-170°	124.5	1.8	1.4
170°-180°	41.0	0.6	0.5
0°-30°	1506.7	22.1	16.7
0°-40°	2393.1	35.1	26.6
0°-60°	3815.7	55.9	42.4
0°-90°	4577.9	67.1	50.9
90°-120°	894.0	13.1	9.9
90°-150°	1873.4	27.5	20.8
90°-180°	2247.0	32.9	25.0
0°-180°	6824.5	100.0	75.8

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1997	1997	1997	1997	1997	
5°	1992	1980	1977	1984	1986	189
15°	1902	1889	1907	1924	1921	536
25°	1751	1733	1706	1668	1637	808
35°	1565	1530	1394	1318	1314	973
45°	1195	1187	1084	969	919	917
55°	725	765	691	565	526	657
65°	428	433	378	350	339	421
75°	211	210	217	238	245	225
85°	59	88	136	161	164	62
90°	0	56	110	130	132	6
95°	44	153	214	202	192	46
105°	151	254	352	387	378	157
115°	244	307	402	454	465	238
125°	305	355	426	449	447	275
135°	392	416	449	461	449	301
145°	437	441	452	456	455	273
155°	443	436	455	459	452	205
165°	438	425	438	450	447	124
175°	438	431	428	427	423	42
180°	437	437	437	437	437	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1996.7	1996.7	1996.7	1996.7	1996.7
2.5°	1996.6	1986.6	1988.7	1995.7	1999.3
5°	1991.8	1980.0	1977.2	1983.5	1985.5
7.5°	1982.0	1966.9	1964.9	1973.8	1977.7
10°	1964.6	1948.3	1952.6	1960.4	1963.2
12.5°	1937.5	1922.4	1933.8	1943.9	1947.8
15°	1902.5	1888.7	1906.8	1924.4	1921.2
17.5°	1863.9	1851.3	1876.5	1880.3	1866.1
20°	1825.6	1812.5	1835.2	1817.6	1797.0
22.5°	1788.3	1772.9	1775.7	1746.3	1721.0
25°	1751.3	1733.0	1705.8	1667.6	1637.3
27.5°	1713.3	1691.4	1631.7	1580.4	1541.4
30°	1671.6	1646.1	1555.2	1482.8	1444.1
32.5°	1623.3	1593.0	1476.1	1388.8	1372.2
35°	1564.6	1529.9	1394.2	1318.4	1314.2
37.5°	1492.4	1457.2	1310.6	1253.2	1234.1
40°	1405.6	1375.3	1233.0	1169.2	1140.5
42.5°	1305.5	1284.5	1162.6	1075.6	1032.7
45°	1195.3	1186.9	1084.5	969.2	918.6
47.5°	1079.4	1083.4	991.7	858.5	806.8
50°	959.6	977.0	891.5	750.7	703.7
52.5°	838.7	870.0	789.9	652.4	609.0
55°	724.7	764.7	691.4	564.8	525.7
57.5°	626.1	667.1	602.0	492.0	465.7
60°	551.7	585.2	518.2	435.6	418.6
62.5°	495.5	509.6	442.1	390.1	377.9
65°	427.5	433.4	377.9	349.8	338.9
67.5°	356.2	362.6	326.0	312.0	304.2
70°	300.2	302.9	283.6	280.0	278.7
72.5°	256.2	254.1	247.5	256.6	258.8
75°	211.1	210.5	217.3	238.0	245.1
77.5°	168.8	168.7	194.9	224.9	231.7
80°	130.4	134.3	176.9	205.8	208.9
82.5°	94.8	108.1	156.8	182.9	185.7
85°	58.6	88.4	135.9	160.6	163.6
87.5°	21.1	69.2	116.5	139.9	143.3
90°	0.1	56.1	110.0	130.1	131.7
92.5°	20.8	102.9	147.5	149.2	141.3
95°	44.3	153.3	214.5	201.6	191.8
97.5°	68.3	183.6	279.1	274.4	261.0
100°	93.6	217.1	307.8	336.7	319.9
102.5°	121.3	241.4	330.6	365.9	352.9
105°	150.7	253.7	352.5	387.1	377.8
107.5°	176.9	264.6	373.3	412.6	406.4
110°	200.6	276.8	389.0	431.2	432.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	224.5	291.4	395.9	447.2	454.0
115°	244.0	306.9	401.5	453.9	465.1
117.5°	257.8	319.4	408.9	452.5	461.5
120°	270.7	330.8	414.3	449.2	455.5
122.5°	285.9	341.7	419.7	448.3	448.9
125°	305.1	355.1	425.8	449.2	446.8
127.5°	327.3	370.2	432.9	449.4	446.3
130°	350.4	386.5	440.3	450.8	445.4
132.5°	372.4	402.2	444.8	454.4	445.7
135°	391.9	415.8	448.8	460.6	449.3
137.5°	408.4	426.4	450.1	464.6	457.2
140°	421.2	433.9	450.9	464.1	459.5
142.5°	430.4	438.8	451.5	461.4	457.8
145°	437.0	441.2	452.4	456.1	454.7
147.5°	441.2	442.4	455.3	453.8	447.2
150°	442.9	441.9	456.2	453.9	446.9
152.5°	443.1	439.7	455.6	456.4	448.5
155°	442.6	436.5	454.9	459.4	452.1
157.5°	441.4	432.9	453.7	458.1	453.7
160°	440.6	430.1	450.3	456.6	451.0
162.5°	439.6	427.3	444.3	454.9	448.7
165°	438.5	424.9	437.6	450.0	446.6
167.5°	438.1	423.4	432.5	441.0	437.8
170°	438.0	424.6	429.3	433.5	430.7
172.5°	438.0	427.2	426.9	428.9	424.8
175°	438.0	430.6	428.3	426.8	422.6
177.5°	438.0	434.2	434.1	431.6	426.4
180°	436.9	436.9	436.9	436.9	436.9

(END OF REPORT)