

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: 20540

Luminaire Tested: **IQ-WO-2T5**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 20540
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: IQ-WO-2T5
Description: DIRECT/INDIRECT SUSPENDED LUMINAIRE WITH WHITE INTERIOR WITH WHITE PLASTIC LENS
Light Source: TWO SYLVANIA 54 WATT T5 LAMPS

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

Ballast/Driver: -

Summary

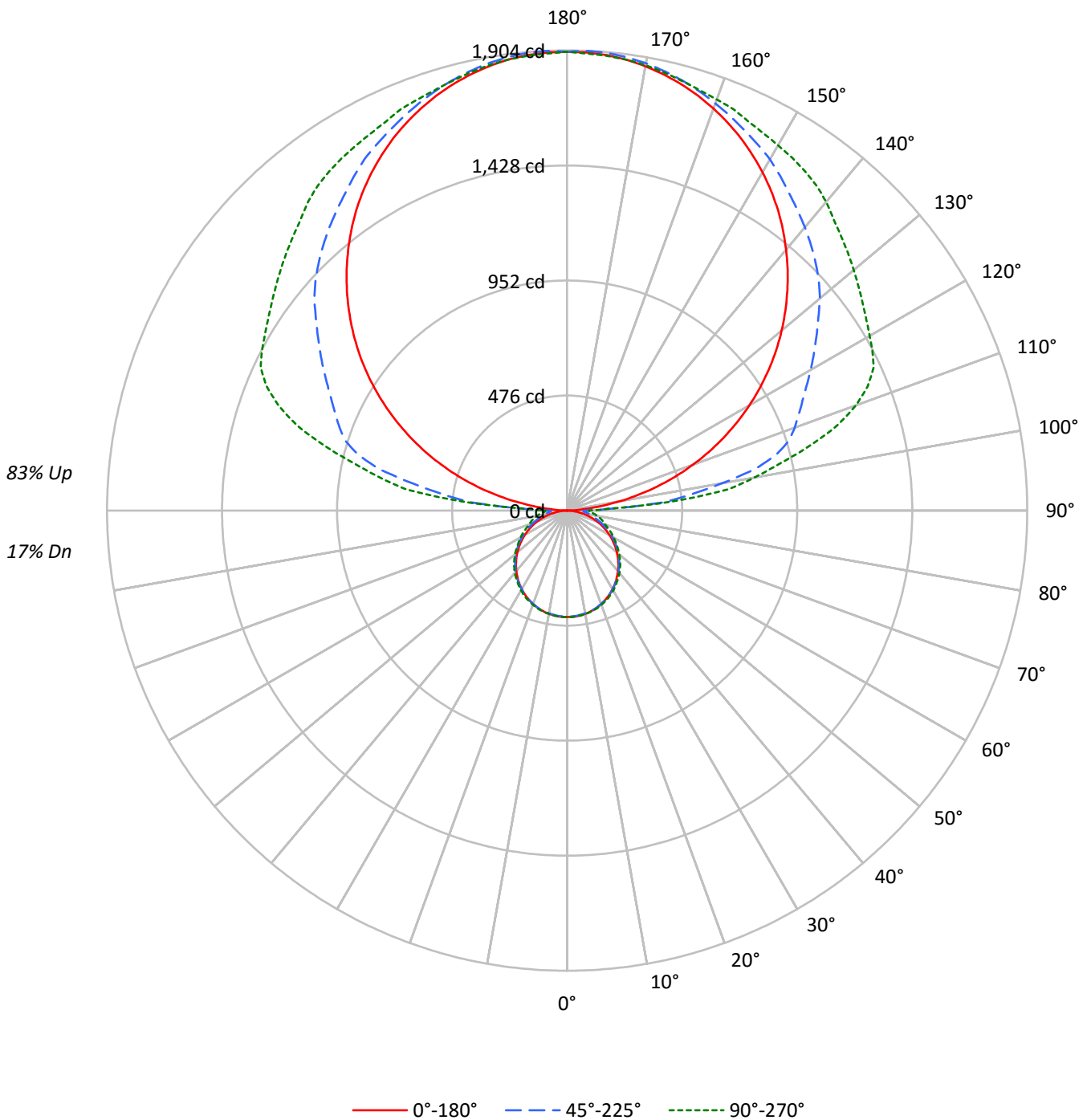
Lumens per Lamp: 4500 (2 lamps)
Luminaire Lumens: 8378.7 lumens
Efficiency: 93.1%
Efficacy: 71.0 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.29 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.32' x L: 3.67' x H: 0.06')
CIE Type: Semi-Indirect

Input Watts (W): 118
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	92	92	92	92	81	81	81	81	60	60	60	41	41	41	24	24	24	16
1	84	80	76	73	73	70	67	65	52	50	49	36	35	34	20	20	19	12
2	76	69	64	59	67	61	57	53	46	42	40	31	29	28	18	17	16	10
3	69	61	54	49	61	54	48	44	40	36	33	27	25	23	16	14	13	8
4	63	54	47	41	55	47	41	37	35	31	28	24	22	20	14	13	11	7
5	58	47	40	35	50	42	36	31	31	27	24	22	19	17	12	11	10	6
6	53	42	35	30	46	37	31	27	28	24	21	19	17	15	11	10	9	5
7	49	38	31	26	43	34	28	23	25	21	18	17	15	13	10	9	8	5
8	45	34	27	23	40	30	24	20	23	19	16	16	13	11	9	8	7	4
9	42	31	24	20	37	28	22	18	21	17	14	15	12	10	9	7	6	4
10	39	28	22	18	34	25	20	16	19	15	12	13	11	9	8	6	5	3

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4030	4030	4030
5°	4039	3971	3974
10°	4025	3917	3914
15°	4010	3868	3852
20°	3989	3808	3786
25°	3964	3750	3721
30°	3934	3674	3645
35°	3898	3605	3553
40°	3857	3528	3481
45°	3811	3446	3386
50°	3755	3355	3281
55°	3688	3256	3156
60°	3612	3139	3073
65°	3512	3000	2988
70°	3383	2876	2952
75°	3187	2772	3090
80°	2860	2855	3233
85°	2073	3031	3463



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	41.6	0.5	0.5
10°-20°	119.7	1.4	1.3
20°-30°	182.7	2.2	2.0
30°-40°	222.4	2.7	2.5
40°-50°	234.7	2.8	2.6
50°-60°	218.6	2.6	2.4
60°-70°	179.3	2.1	2.0
70°-80°	128.5	1.5	1.4
80°-90°	79.2	0.9	0.9
90°-100°	350.5	4.2	3.9
100°-110°	825.7	9.9	9.2
110°-120°	1051.1	12.5	11.7
120°-130°	1121.9	13.4	12.5
130°-140°	1115.1	13.3	12.4
140°-150°	1007.0	12.0	11.2
150°-160°	801.8	9.6	8.9
160°-170°	518.8	6.2	5.8
170°-180°	180.1	2.1	2.0
0°-30°	344.0	4.1	3.8
0°-40°	566.4	6.8	6.3
0°-60°	1019.7	12.2	11.3
0°-90°	1406.8	16.8	15.6
90°-120°	2227.3	26.6	24.7
90°-150°	5471.3	65.3	60.8
90°-180°	6972.0	83.2	77.5
0°-180°	8378.7	100.0	93.1

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	440	440	440	440	440	
5°	440	437	437	438	439	42
15°	424	423	423	425	426	120
25°	395	394	396	398	400	182
35°	352	352	355	358	359	221
45°	299	300	304	309	310	231
55°	236	239	246	250	250	211
65°	168	172	181	191	193	166
75°	96	102	120	140	148	101
85°	23	46	76	96	104	27
90°	0	39	70	84	89	4
95°	67	252	408	433	440	88
105°	387	544	897	1006	1042	408
115°	714	818	1074	1311	1399	706
125°	1019	1066	1259	1424	1493	910
135°	1289	1312	1454	1560	1604	994
145°	1520	1527	1602	1682	1715	951
155°	1700	1705	1736	1769	1776	784
165°	1826	1828	1842	1842	1840	515
175°	1892	1889	1900	1894	1888	180
180°	1898	1898	1898	1898	1898	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	439.7	439.7	439.7	439.7	439.7
2.5°	440.9	438.4	438.1	438.8	440.6
5°	439.6	437.3	437.1	437.5	439.0
7.5°	437.1	435.1	434.6	435.6	437.3
10°	433.7	431.7	431.6	433.0	434.4
12.5°	429.8	427.7	427.9	429.2	431.0
15°	424.5	422.8	423.4	425.0	426.4
17.5°	418.6	417.1	417.6	419.2	421.1
20°	411.4	410.4	410.9	412.7	414.6
22.5°	403.6	402.9	403.9	406.0	407.6
25°	395.0	394.3	395.7	398.0	400.1
27.5°	385.7	385.2	385.9	389.2	391.4
30°	375.2	375.2	376.0	379.2	381.7
32.5°	364.4	364.1	365.9	368.1	370.6
35°	352.4	352.5	354.7	358.3	359.2
37.5°	340.0	340.3	342.9	346.8	349.0
40°	326.8	327.5	330.5	335.0	336.7
42.5°	313.4	313.8	317.6	321.9	323.6
45°	298.8	299.9	304.2	308.7	310.2
47.5°	284.0	285.0	290.3	294.7	296.0
50°	268.5	270.0	275.7	280.4	281.5
52.5°	252.6	254.5	260.8	265.3	265.8
55°	236.2	238.6	245.7	249.7	250.4
57.5°	219.4	222.4	230.0	234.4	235.9
60°	202.6	205.9	214.0	219.4	222.1
62.5°	184.9	188.9	197.4	205.3	208.3
65°	167.6	172.3	181.1	190.6	193.2
67.5°	149.7	155.1	165.4	174.8	178.6
70°	131.9	137.8	149.8	161.4	166.9
72.5°	113.6	120.0	134.2	150.8	158.0
75°	95.5	102.2	120.4	140.5	148.3
77.5°	77.1	85.3	109.1	130.2	137.7
80°	59.2	70.2	98.3	119.3	126.4
82.5°	41.5	57.3	87.5	108.0	115.4
85°	23.4	46.5	76.3	96.5	103.5
87.5°	7.8	36.1	66.3	85.9	92.5
90°	0.0	39.1	70.5	84.4	88.6
92.5°	19.3	137.9	176.8	163.1	166.2
95°	67.4	252.3	407.6	433.4	439.5
97.5°	138.8	386.1	520.3	630.5	672.7
100°	219.3	454.1	649.4	738.2	785.3
102.5°	302.7	498.5	797.8	860.8	902.9
105°	386.9	544.5	896.8	1006.3	1041.9
107.5°	470.5	604.0	962.4	1129.4	1172.3
110°	553.0	670.7	1001.8	1211.6	1271.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	634.2	743.2	1036.5	1276.3	1346.5
115°	714.5	817.6	1074.4	1310.8	1399.1
117.5°	793.6	881.9	1116.9	1337.2	1424.0
120°	870.6	943.7	1163.3	1364.4	1445.5
122.5°	945.9	1004.5	1210.7	1392.6	1468.3
125°	1019.3	1065.5	1259.0	1424.4	1493.0
127.5°	1090.4	1127.3	1310.5	1458.1	1520.1
130°	1158.7	1192.8	1365.2	1490.9	1548.2
132.5°	1224.7	1255.3	1412.0	1524.1	1576.1
135°	1288.6	1311.9	1453.7	1559.7	1603.5
137.5°	1350.4	1365.8	1493.0	1599.9	1633.1
140°	1409.2	1421.1	1530.4	1633.3	1667.5
142.5°	1466.1	1475.3	1566.0	1659.2	1695.1
145°	1519.9	1526.6	1602.0	1682.5	1714.6
147.5°	1569.7	1576.4	1641.1	1702.8	1731.4
150°	1616.6	1622.8	1678.4	1722.2	1745.5
152.5°	1659.9	1665.6	1707.8	1743.4	1759.3
155°	1700.4	1704.9	1736.5	1768.9	1775.8
157.5°	1736.8	1741.3	1765.3	1788.5	1797.5
160°	1770.2	1772.7	1793.4	1804.4	1809.9
162.5°	1799.9	1802.2	1819.1	1823.3	1823.8
165°	1826.0	1827.9	1842.3	1841.8	1839.7
167.5°	1848.1	1849.3	1862.0	1859.6	1856.1
170°	1866.6	1866.7	1878.9	1875.6	1870.7
172.5°	1881.4	1879.9	1891.7	1886.7	1881.6
175°	1891.5	1888.8	1900.2	1894.2	1888.4
177.5°	1896.9	1894.2	1903.8	1898.1	1892.6
180°	1898.3	1898.3	1898.3	1898.3	1898.3

(END OF REPORT)