

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: 20545

Luminaire Tested: **IQ-WO-3T8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 20545
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: IQ-WO-3T8
Description: DIRECT/INDIRECT SUSPENDED LUMINAIRE WITH WHITE INTERIOR WITH WHITE PLASTIC LENS
Light Source: THREE PHILIPS 32 WATT T8 LAMPS

F32T8/TL841. LUMEN RATING = 3000 LMS.

Ballast/Driver: -

Summary

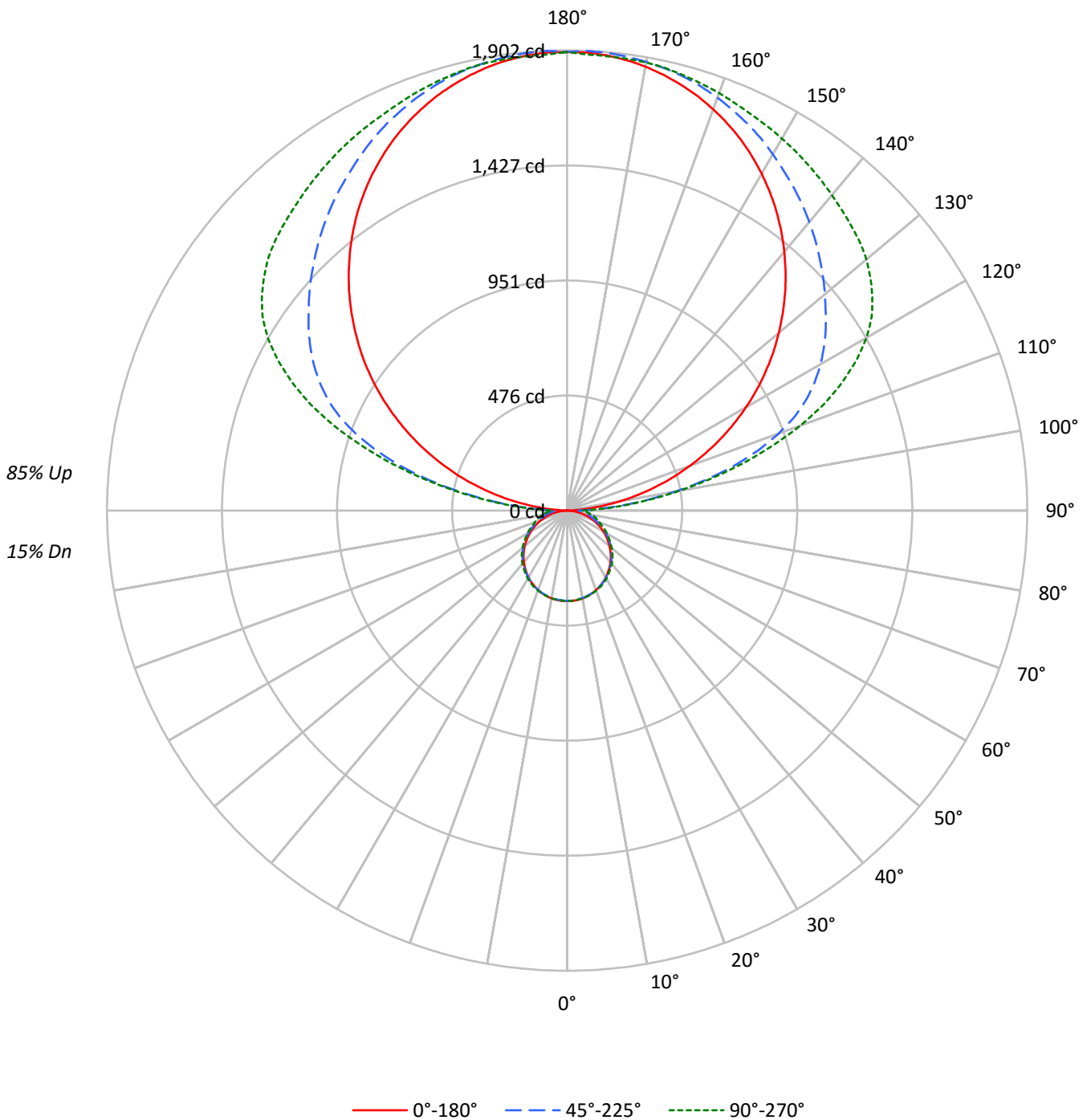
Lumens per Lamp: 3000 (3 lamps)
Luminaire Lumens: 7925.1 lumens
Efficiency: 88.1%
Efficacy: 85.2 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.29 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.32' x L: 3.67' x H: 0.06')
CIE Type: Semi-Indirect

Input Watts (W): 93
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	87	87	87	87	76	76	76	76	56	56	56	38	38	38	21	21	21	13
1	79	75	72	69	69	66	63	61	49	47	45	33	32	31	18	18	17	11
2	72	65	60	56	63	57	53	50	42	40	37	29	27	26	16	15	14	9
3	65	57	51	46	57	50	45	41	37	34	31	25	23	21	14	13	12	7
4	60	51	44	39	52	44	39	35	33	29	26	22	20	18	12	11	10	6
5	54	45	38	33	47	39	34	29	29	25	22	20	17	16	11	10	9	5
6	50	40	33	28	44	35	29	25	26	22	19	18	15	13	10	9	8	5
7	46	36	29	24	40	32	26	22	24	20	17	16	14	12	9	8	7	4
8	43	32	26	21	37	29	23	19	21	17	15	15	12	10	8	7	6	4
9	39	29	23	19	34	26	21	17	19	16	13	13	11	9	8	6	5	3
10	37	27	21	17	32	24	18	15	18	14	11	12	10	8	7	6	5	3

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3422	3422	3422
5°	3426	3372	3360
10°	3422	3332	3317
15°	3409	3283	3263
20°	3389	3238	3208
25°	3369	3191	3164
30°	3348	3131	3102
35°	3315	3078	3021
40°	3281	3025	2969
45°	3244	2948	2893
50°	3199	2883	2804
55°	3143	2797	2704
60°	3086	2698	2626
65°	2998	2583	2551
70°	2908	2488	2513
75°	2747	2399	2588
80°	2541	2463	2676
85°	1985	2542	2784



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	35.3	0.4	0.4
10°-20°	101.7	1.3	1.1
20°-30°	155.4	2.0	1.7
30°-40°	189.6	2.4	2.1
40°-50°	200.8	2.5	2.2
50°-60°	187.5	2.4	2.1
60°-70°	154.0	1.9	1.7
70°-80°	110.2	1.4	1.2
80°-90°	64.8	0.8	0.7
90°-100°	220.4	2.8	2.4
100°-110°	677.5	8.5	7.5
110°-120°	1012.9	12.8	11.3
120°-130°	1147.5	14.5	12.8
130°-140°	1135.4	14.3	12.6
140°-150°	1019.6	12.9	11.3
150°-160°	810.3	10.2	9.0
160°-170°	522.1	6.6	5.8
170°-180°	180.1	2.3	2.0
0°-30°	292.4	3.7	3.2
0°-40°	482.0	6.1	5.4
0°-60°	870.3	11.0	9.7
0°-90°	1199.2	15.1	13.3
90°-120°	1910.8	24.1	21.2
90°-150°	5213.3	65.8	57.9
90°-180°	6726.0	84.9	74.7
0°-180°	7925.1	100.0	88.1

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	373	373	373	373	373	
5°	373	372	371	372	371	35
15°	361	359	359	361	361	102
25°	336	335	337	339	340	155
35°	300	301	303	306	305	187
45°	254	256	260	264	265	196
55°	201	205	211	214	214	180
65°	143	149	156	163	165	142
75°	82	89	104	120	124	87
85°	22	41	64	78	83	24
90°	0	25	47	59	64	4
95°	77	176	209	218	224	94
105°	380	567	713	742	748	401
115°	698	826	1093	1219	1256	690
125°	1002	1081	1305	1479	1540	895
135°	1274	1326	1476	1607	1662	983
145°	1509	1543	1631	1710	1742	944
155°	1695	1714	1764	1793	1805	781
165°	1821	1829	1857	1863	1862	514
175°	1888	1887	1899	1891	1885	179
180°	1895	1895	1895	1895	1895	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	373.4	373.4	373.4	373.4	373.4
2.5°	374.8	372.6	371.9	372.3	373.2
5°	372.9	371.6	371.1	371.8	371.2
7.5°	371.4	369.3	369.0	369.8	370.1
10°	368.7	367.2	367.1	367.1	368.2
12.5°	364.7	363.1	363.6	364.4	365.4
15°	360.8	359.4	359.4	360.7	361.2
17.5°	355.7	354.9	355.2	355.8	356.8
20°	349.5	349.2	349.4	350.9	351.3
22.5°	342.8	342.9	343.7	345.5	345.7
25°	335.7	335.4	336.7	338.7	340.2
27.5°	327.7	327.7	328.6	331.2	332.6
30°	319.3	319.3	320.5	323.2	324.8
32.5°	309.4	310.3	311.3	313.7	316.0
35°	299.7	300.7	302.9	305.8	305.4
37.5°	288.8	290.9	292.4	296.4	297.2
40°	278.0	279.5	283.4	286.1	287.2
42.5°	266.7	268.4	271.9	275.3	276.7
45°	254.4	256.4	260.2	264.1	265.0
47.5°	241.5	244.2	248.6	252.7	253.0
50°	228.7	231.7	236.9	240.6	240.6
52.5°	215.6	218.0	224.3	227.5	227.9
55°	201.3	204.9	211.1	214.2	214.5
57.5°	187.5	191.6	197.2	201.1	201.3
60°	173.1	177.7	183.9	188.3	189.8
62.5°	159.0	162.8	169.6	176.3	177.7
65°	143.1	148.9	155.9	162.9	164.9
67.5°	128.4	134.1	142.5	149.9	151.2
70°	113.4	118.8	129.6	137.9	142.1
72.5°	97.7	104.1	115.6	129.2	133.3
75°	82.3	89.2	104.2	119.5	124.2
77.5°	66.9	74.3	94.4	110.4	114.4
80°	52.6	61.2	84.8	99.9	104.6
82.5°	37.4	50.2	74.0	89.6	93.5
85°	22.4	40.6	64.0	78.0	83.2
87.5°	7.5	30.9	54.0	67.7	71.5
90°	0.2	25.2	47.0	59.1	64.4
92.5°	24.3	80.1	107.8	117.3	123.5
95°	76.6	175.8	209.3	218.2	223.9
97.5°	145.8	286.1	327.6	337.3	341.7
100°	221.0	392.8	455.2	466.8	471.0
102.5°	300.0	486.0	586.1	603.0	608.2
105°	379.5	567.2	713.0	742.3	748.4
107.5°	459.7	636.7	827.8	878.0	888.7
110°	539.4	700.7	929.7	1005.5	1024.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	618.7	762.4	1020.0	1118.7	1147.2
115°	697.8	825.8	1092.9	1218.8	1255.5
117.5°	776.3	889.8	1154.2	1305.9	1348.2
120°	853.1	954.1	1210.1	1375.6	1429.1
122.5°	928.9	1018.2	1258.6	1431.4	1492.9
125°	1001.8	1081.4	1304.8	1479.2	1540.3
127.5°	1073.7	1144.0	1346.9	1520.0	1580.5
130°	1142.1	1203.9	1391.0	1552.5	1615.0
132.5°	1209.3	1265.9	1433.6	1581.4	1641.1
135°	1273.9	1326.3	1475.6	1606.8	1662.5
137.5°	1336.6	1384.5	1517.4	1633.8	1682.2
140°	1396.5	1439.7	1557.0	1659.6	1702.5
142.5°	1454.1	1492.7	1595.4	1685.9	1722.1
145°	1508.9	1542.6	1631.4	1709.6	1741.5
147.5°	1559.9	1591.2	1665.8	1732.5	1759.2
150°	1608.3	1635.9	1700.6	1754.8	1775.6
152.5°	1652.7	1676.9	1734.2	1775.1	1791.4
155°	1694.7	1713.8	1764.1	1793.0	1805.0
157.5°	1731.4	1747.9	1790.6	1814.0	1820.3
160°	1765.1	1778.0	1816.5	1832.7	1836.7
162.5°	1795.7	1805.2	1838.3	1848.3	1849.9
165°	1821.4	1829.0	1857.4	1862.6	1862.0
167.5°	1844.4	1848.9	1871.7	1875.9	1873.8
170°	1863.4	1865.7	1883.3	1883.3	1880.4
172.5°	1878.0	1878.7	1892.9	1889.1	1884.3
175°	1888.5	1887.2	1898.6	1891.2	1885.1
177.5°	1894.7	1893.0	1901.9	1893.5	1887.0
180°	1895.1	1895.1	1895.1	1895.1	1895.1

(END OF REPORT)