

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: 20509

Luminaire Tested: **IQ-WB-4T8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 20509
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: IQ-WB-4T8
Description: DIRECT/INDIRECT SUSPENDED LUMINAIRE WITH WHITE INTERIOR WITH 36 CELL
WHITE PERF LOUVER
Light Source: FOUR PHILIPS 32 WATT T8 LAMPS

F32T8/TL841. LUMEN RATING = 3000 LMS.

Ballast/Driver: -

Summary

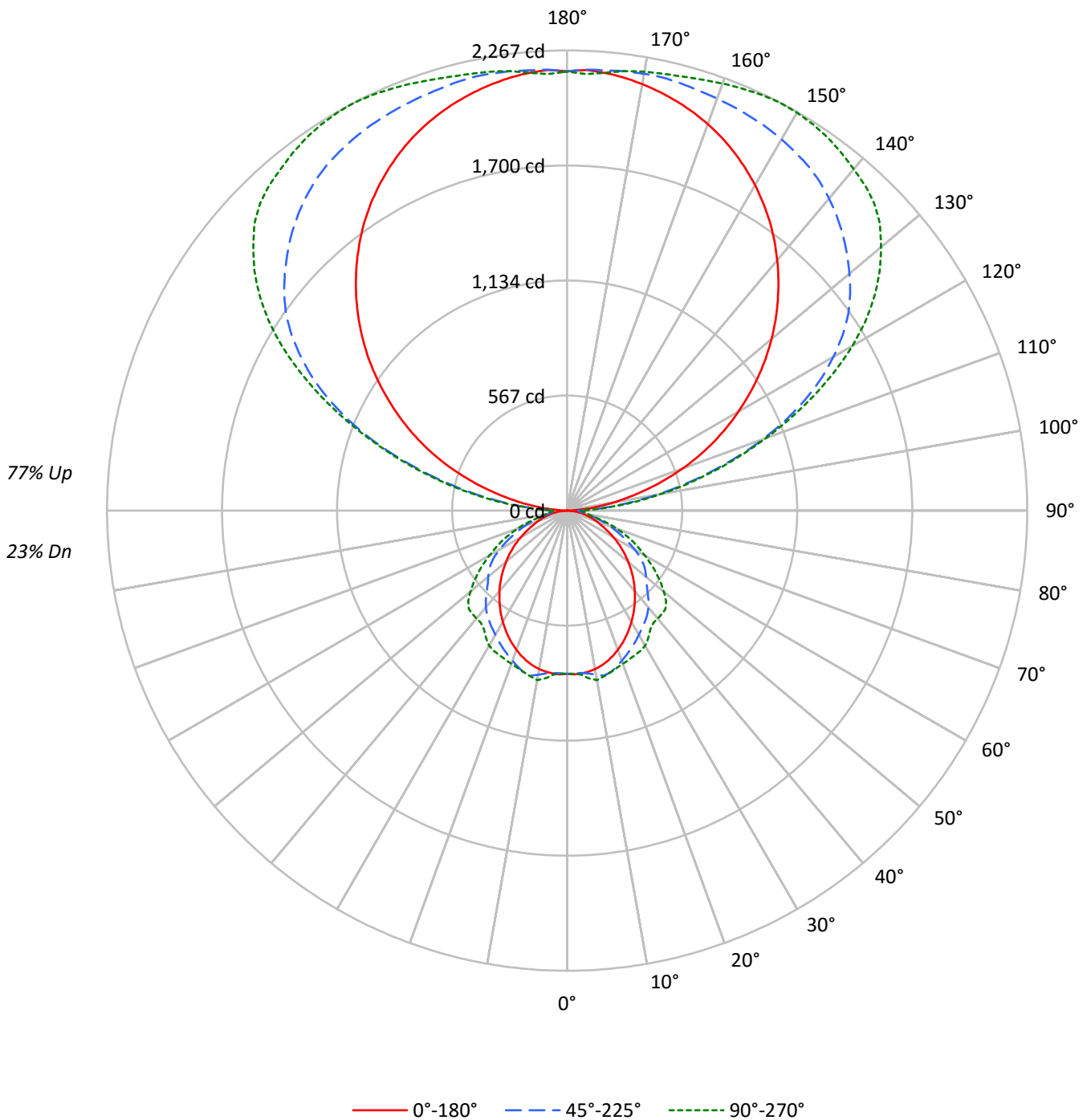
Lumens per Lamp: 3000 (4 lamps)
Luminaire Lumens: 10467.4 lumens
Efficiency: 87.2%
Efficacy: 86.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.38 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.32' x L: 3.67' x H: 0.06')
CIE Type: Semi-Indirect

Input Watts (W): 121
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	50	30	10	0	
RCR																						
0	88	88	88	88	78	78	78	78	60	60	60	43	43	43	27	27	27	20				
1	80	76	73	70	71	68	65	63	52	50	48	37	36	35	24	23	23	17				
2	73	66	61	57	64	59	55	51	45	42	40	33	31	29	21	20	19	14				
3	66	58	52	47	59	52	47	43	40	36	33	29	27	25	19	17	16	12				
4	60	51	45	40	53	46	40	36	35	31	28	26	23	21	17	15	14	10				
5	55	46	39	34	49	41	35	31	31	27	24	23	20	18	15	13	12	9				
6	51	41	34	29	45	36	31	26	28	24	21	21	18	16	13	12	10	8				
7	47	37	30	25	41	33	27	23	25	21	18	19	16	14	12	10	9	7				
8	43	33	27	22	38	30	24	20	23	19	16	17	14	12	11	9	8	6				
9	40	30	24	19	36	27	21	18	21	17	14	15	13	11	10	9	7	5				
10	37	27	21	17	33	25	19	16	19	15	13	14	12	10	9	8	7	5				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7371	7371	7371
5°	7399	7295	7348
10°	7360	7455	7641
15°	7250	7540	7447
20°	7080	7299	7334
25°	6874	7089	7318
30°	6641	6906	7340
35°	6385	6786	7069
40°	6122	6656	7175
45°	5826	6340	7475
50°	5495	6176	7247
55°	5137	6090	6747
60°	4724	5639	6119
65°	4222	4990	5471
70°	3919	4288	4606
75°	3628	3532	3367
80°	3318	2797	2775
85°	2694	2761	2777



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	77.4	0.7	0.6
10°-20°	227.5	2.2	1.9
20°-30°	345.1	3.3	2.9
30°-40°	414.7	4.0	3.5
40°-50°	438.1	4.2	3.7
50°-60°	398.1	3.8	3.3
60°-70°	288.8	2.8	2.4
70°-80°	155.6	1.5	1.3
80°-90°	70.8	0.7	0.6
90°-100°	222.2	2.1	1.9
100°-110°	718.5	6.9	6.0
110°-120°	1178.5	11.3	9.8
120°-130°	1426.9	13.6	11.9
130°-140°	1437.1	13.7	12.0
140°-150°	1269.8	12.1	10.6
150°-160°	979.6	9.4	8.2
160°-170°	611.6	5.8	5.1
170°-180°	207.0	2.0	1.7
0°-30°	650.0	6.2	5.4
0°-40°	1064.7	10.2	8.9
0°-60°	1900.9	18.2	15.8
0°-90°	2416.1	23.1	20.1
90°-120°	2119.2	20.2	17.7
90°-150°	6253.1	59.7	52.1
90°-180°	8051.0	76.9	67.1
0°-180°	10467.4	100.0	87.2

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	804	804	804	804	804	
5°	805	800	803	810	812	76
15°	767	782	825	826	824	216
25°	685	733	748	778	787	315
35°	577	618	668	715	715	361
45°	457	499	560	646	685	352
55°	329	379	460	518	535	294
65°	202	248	301	339	354	202
75°	109	120	153	167	162	115
85°	30	46	70	81	83	33
90°	0	30	54	64	66	6
95°	86	174	207	218	225	101
105°	411	678	727	736	744	437
115°	794	1086	1295	1334	1343	784
125°	1149	1397	1691	1815	1850	1026
135°	1468	1647	1922	2082	2140	1132
145°	1740	1851	2072	2197	2241	1088
155°	1947	2014	2140	2225	2261	898
165°	2087	2110	2177	2200	2213	589
175°	2164	2157	2177	2168	2165	206
180°	2164	2164	2164	2164	2164	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	804.2	804.2	804.2	804.2	804.2
2.5°	807.9	801.6	802.4	803.6	804.3
5°	805.3	800.5	802.9	810.1	811.8
7.5°	800.7	796.9	809.4	827.4	834.1
10°	793.1	792.6	821.4	846.2	848.1
12.5°	782.1	787.9	832.7	839.4	836.9
15°	767.4	782.0	825.3	825.9	824.3
17.5°	750.0	774.5	807.1	811.9	812.7
20°	730.2	765.5	787.6	799.7	803.2
22.5°	708.4	753.1	767.7	789.0	794.5
25°	684.9	733.0	748.1	778.4	786.9
27.5°	659.9	706.9	727.6	768.6	780.1
30°	633.4	678.5	706.8	757.7	768.6
32.5°	605.8	648.7	687.2	739.0	744.2
35°	577.2	618.4	667.7	715.2	714.7
37.5°	548.3	588.5	647.9	687.7	697.4
40°	518.7	558.6	623.6	665.2	694.0
42.5°	488.3	528.8	592.3	655.9	690.8
45°	456.8	499.2	559.6	646.2	684.8
47.5°	425.0	469.0	529.4	632.5	661.6
50°	392.9	438.8	507.5	603.6	621.8
52.5°	360.8	409.1	485.2	561.7	579.6
55°	329.0	379.3	459.6	517.9	535.3
57.5°	296.9	347.8	424.7	473.5	488.4
60°	265.0	314.5	384.4	427.3	442.2
62.5°	232.9	281.0	342.5	382.4	397.3
65°	201.5	247.6	301.2	338.6	353.7
67.5°	175.5	214.0	261.2	296.8	306.1
70°	152.8	181.1	223.4	252.3	260.4
72.5°	130.4	148.8	188.9	210.3	213.9
75°	108.7	120.5	153.4	167.2	161.6
77.5°	88.0	95.2	123.0	125.3	124.2
80°	68.7	74.8	96.3	106.6	108.5
82.5°	49.7	59.0	81.4	93.4	95.3
85°	30.4	46.5	69.5	81.0	83.0
87.5°	10.7	36.3	58.8	69.7	71.8
90°	0.0	30.3	53.5	64.0	66.5
92.5°	30.2	83.8	108.7	118.0	123.0
95°	86.0	174.1	207.3	218.4	224.6
97.5°	154.8	287.1	322.1	335.4	342.1
100°	234.1	418.5	447.7	462.6	470.1
102.5°	319.9	550.0	583.2	596.6	605.0
105°	411.2	678.1	727.4	736.4	744.2
107.5°	507.1	792.6	878.2	884.9	891.9
110°	605.5	896.9	1026.2	1034.1	1040.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	700.5	993.8	1165.6	1185.5	1192.3
115°	793.8	1086.2	1295.4	1334.1	1342.9
117.5°	885.1	1171.9	1412.0	1474.8	1487.3
120°	974.0	1251.2	1515.4	1603.7	1623.2
122.5°	1062.0	1325.7	1609.7	1716.9	1744.2
125°	1149.1	1397.0	1691.1	1815.4	1850.5
127.5°	1233.5	1465.2	1757.8	1899.8	1941.7
130°	1314.6	1528.2	1815.9	1978.4	2018.4
132.5°	1392.8	1588.9	1870.3	2038.8	2090.6
135°	1468.1	1646.6	1921.5	2082.3	2139.6
137.5°	1540.8	1701.6	1967.0	2115.5	2172.6
140°	1610.5	1754.4	2007.4	2147.0	2195.7
142.5°	1676.9	1804.3	2042.9	2174.8	2220.6
145°	1739.7	1851.4	2071.7	2196.8	2241.0
147.5°	1797.4	1896.3	2093.2	2213.0	2255.0
150°	1851.5	1938.2	2112.2	2225.6	2263.5
152.5°	1901.5	1977.8	2127.9	2228.8	2266.6
155°	1947.4	2013.7	2140.0	2224.7	2260.6
157.5°	1989.3	2044.9	2150.7	2220.2	2250.4
160°	2026.3	2070.8	2160.0	2213.6	2238.8
162.5°	2058.9	2092.3	2167.9	2206.7	2225.0
165°	2087.3	2110.0	2177.4	2200.0	2212.8
167.5°	2111.9	2125.1	2185.0	2196.9	2203.3
170°	2133.5	2137.8	2185.2	2194.9	2195.7
172.5°	2151.5	2148.9	2182.8	2182.5	2183.8
175°	2164.3	2156.6	2177.2	2168.0	2164.9
177.5°	2172.7	2161.8	2174.3	2156.4	2151.9
180°	2163.6	2163.6	2163.6	2163.6	2163.6

(END OF REPORT)