

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: 20649

Luminaire Tested: **IQ-WB-2T8-DL1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 20649  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: IQ-WB-2T8-DL1  
Description: WHITE INTERIOR WITH WHITE PERF LOUVER AND SLIDE N LOCK WHITE REFLECTORS  
Light Source: TWO PHILIPS 32 WATT T8 LAMPS  
  
F32T8/TL841. LUMEN RATING = 3000 LMS.  
  
Ballast/Driver: -

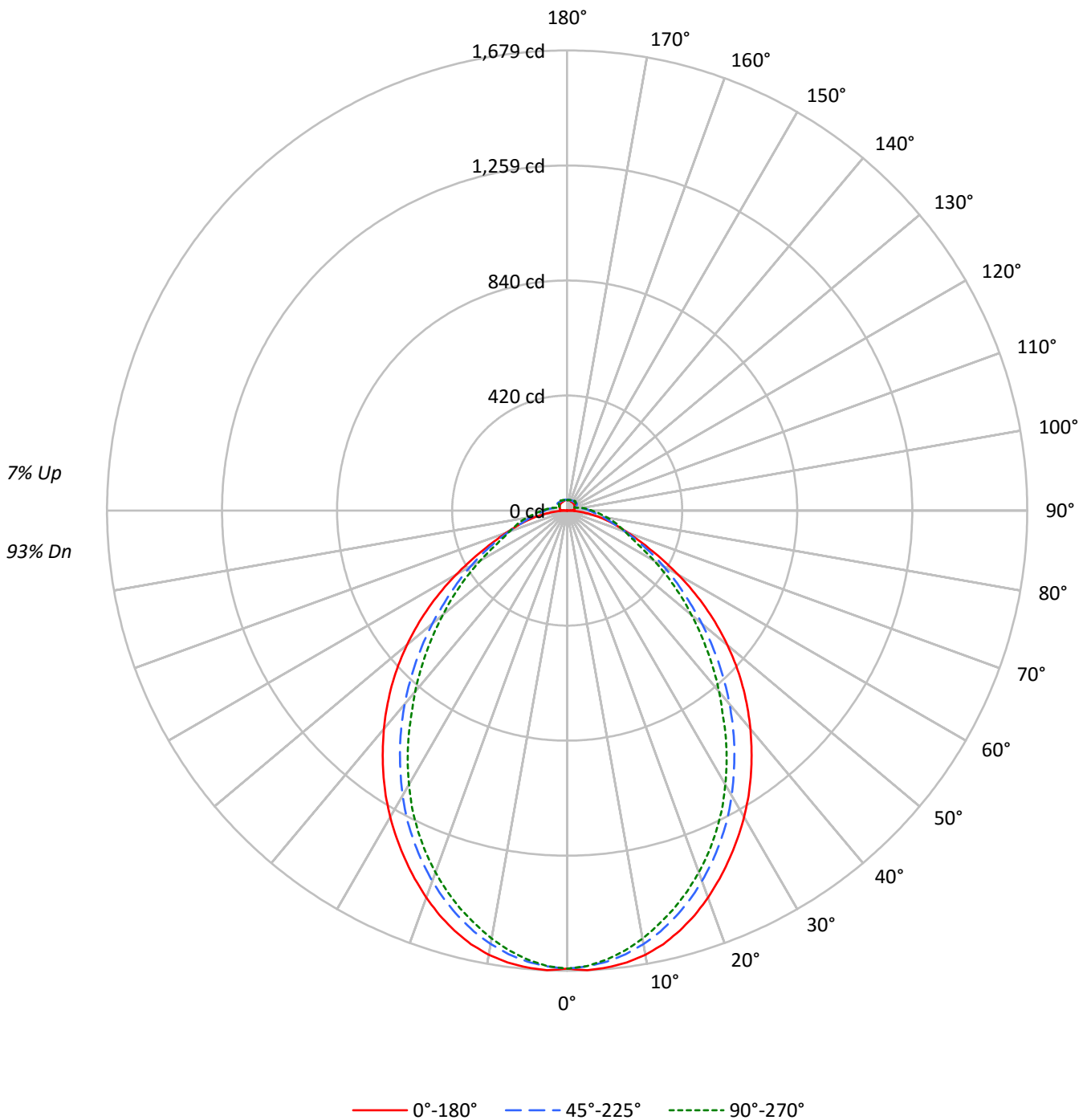
**Summary**

Lumens per Lamp: 3000 (2 lamps)  
Luminaire Lumens: 3822.1 lumens  
Efficiency: 63.7%  
Efficacy: 64.8 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.06 / 1.18  
Luminous Opening: Rectangular w/ Sides (W: 0.32' x L: 3.67' x H: 0.06')  
CIE Type: Direct  
  
Input Watts (W): 59  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	75	75	75	75	73	73	73	73	68	68	68	65	65	65	61	61	61	59
1	69	66	63	61	66	64	62	59	60	58	57	57	56	54	54	53	52	50
2	63	58	54	51	61	56	53	50	54	50	48	51	48	46	48	46	44	43
3	58	52	47	43	56	50	46	42	48	44	41	45	42	40	43	41	38	37
4	53	46	41	37	51	45	40	36	43	39	35	41	37	35	39	36	34	32
5	49	42	36	32	48	41	36	32	39	34	31	37	33	30	36	32	30	28
6	46	38	32	28	44	37	32	28	35	31	28	34	30	27	32	29	26	25
7	42	34	29	25	41	34	29	25	32	28	25	31	27	24	30	26	24	23
8	40	32	26	23	38	31	26	23	30	25	22	29	25	22	28	24	22	20
9	37	29	24	21	36	29	24	21	27	23	20	27	23	20	26	22	20	18
10	35	27	22	19	34	26	22	19	26	21	18	25	21	18	24	20	18	17

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	15319	15319	15319
5°	15376	15012	14892
10°	15274	14578	14287
15°	14994	14004	13588
20°	14569	13335	12828
25°	14066	12576	11985
30°	13537	11734	11023
35°	12943	10811	9977
40°	12276	9838	8919
45°	11548	8832	7893
50°	10677	7807	6902
55°	9617	6817	5974
60°	8330	5961	5069
65°	7000	5107	4308
70°	6042	4356	3962
75°	5470	3891	3886
80°	4845	3813	3835
85°	3801	3960	3881



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	156.5	4.1	2.6
10°-20°	432.6	11.3	7.2
20°-30°	613.4	16.0	10.2
30°-40°	671.2	17.6	11.2
40°-50°	614.9	16.1	10.2
50°-60°	476.7	12.5	7.9
60°-70°	310.0	8.1	5.2
70°-80°	184.2	4.8	3.1
80°-90°	100.4	2.6	1.7
90°-100°	61.8	1.6	1.0
100°-110°	40.4	1.1	0.7
110°-120°	34.9	0.9	0.6
120°-130°	34.5	0.9	0.6
130°-140°	31.8	0.8	0.5
140°-150°	25.4	0.7	0.4
150°-160°	18.4	0.5	0.3
160°-170°	11.1	0.3	0.2
170°-180°	3.7	0.1	0.1
0°-30°	1202.6	31.5	20.0
0°-40°	1873.8	49.0	31.2
0°-60°	2965.4	77.6	49.4
0°-90°	3560.1	93.1	59.3
90°-120°	137.1	3.6	2.3
90°-150°	228.8	6.0	3.8
90°-180°	262.0	6.9	4.4
0°-180°	3822.1	100.0	63.7

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1671	1671	1671	1671	1671	
5°	1674	1659	1652	1648	1645	159
15°	1587	1562	1533	1514	1504	446
25°	1402	1359	1327	1307	1289	645
35°	1170	1115	1064	1027	1009	731
45°	906	854	780	742	723	697
55°	616	580	514	487	474	550
65°	334	332	308	288	278	337
75°	164	160	169	186	186	174
85°	43	65	100	116	116	47
90°	0	43	80	93	90	3
95°	22	39	68	76	72	18
105°	28	34	37	42	40	30
115°	30	38	38	34	31	30
125°	33	38	43	40	37	29
135°	35	38	42	46	44	27
145°	35	38	41	44	44	22
155°	37	38	40	42	42	17
165°	38	39	40	40	40	11
175°	39	39	39	39	38	4
180°	38	38	38	38	38	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1671.4	1671.4	1671.4	1671.4	1671.4
2.5°	1678.8	1667.7	1664.8	1663.7	1663.4
5°	1673.6	1659.0	1652.2	1647.6	1645.2
7.5°	1663.4	1645.7	1632.8	1624.3	1618.5
10°	1645.9	1626.5	1606.2	1593.0	1585.9
12.5°	1620.4	1598.9	1572.6	1555.2	1546.0
15°	1587.1	1562.2	1532.9	1514.3	1504.0
17.5°	1547.7	1517.4	1488.3	1469.0	1456.3
20°	1502.6	1467.1	1438.9	1419.2	1405.0
22.5°	1453.6	1414.4	1384.8	1365.7	1349.1
25°	1401.5	1358.7	1327.1	1307.4	1288.7
27.5°	1347.4	1301.2	1266.9	1244.9	1224.4
30°	1291.2	1240.8	1201.0	1177.5	1154.3
32.5°	1232.2	1178.6	1132.2	1103.8	1082.8
35°	1170.0	1115.4	1063.7	1027.4	1008.8
37.5°	1105.6	1051.1	993.5	956.8	931.6
40°	1040.1	986.5	921.7	884.4	862.7
42.5°	973.6	921.0	850.4	812.4	792.9
45°	905.5	853.8	779.6	741.8	723.1
47.5°	835.5	784.9	709.7	673.7	656.2
50°	763.4	715.3	641.6	607.8	592.2
52.5°	690.0	647.2	575.5	545.4	531.8
55°	615.9	579.8	514.4	487.4	474.0
57.5°	541.0	513.0	459.5	433.6	418.6
60°	467.3	448.0	406.4	382.2	366.3
62.5°	397.6	386.7	355.8	332.8	318.3
65°	334.1	331.5	308.3	288.0	278.5
67.5°	279.5	282.6	265.1	251.9	247.1
70°	235.6	238.2	226.9	224.0	224.0
72.5°	198.4	197.5	194.4	202.7	204.5
75°	163.9	160.3	169.0	185.7	186.5
77.5°	130.9	127.9	148.7	167.2	168.0
80°	100.3	101.0	131.3	149.6	149.9
82.5°	71.7	81.0	115.3	131.2	131.2
85°	42.9	64.8	99.7	115.6	116.0
87.5°	14.1	51.0	89.2	103.2	102.3
90°	0.0	42.6	80.3	92.6	90.5
92.5°	9.8	41.3	75.8	85.8	81.6
95°	22.1	39.0	67.5	76.3	71.7
97.5°	25.7	34.1	58.8	67.7	63.7
100°	26.9	32.2	49.5	59.7	56.4
102.5°	27.7	33.2	42.1	50.7	49.0
105°	28.0	33.9	37.2	42.0	39.7
107.5°	28.5	35.0	35.0	37.4	34.9
110°	29.3	36.7	35.7	34.1	31.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	29.9	37.7	36.9	33.4	29.0
115°	30.2	37.7	37.7	34.3	30.6
117.5°	30.7	37.6	38.8	35.5	32.0
120°	31.2	37.7	39.8	36.9	33.5
122.5°	32.1	37.6	41.4	38.1	35.1
125°	32.7	37.5	42.8	39.5	36.7
127.5°	33.3	37.4	43.2	41.0	38.2
130°	34.0	37.8	42.9	43.2	40.1
132.5°	34.4	38.2	42.6	44.7	42.4
135°	34.9	38.2	42.2	45.6	43.9
137.5°	35.0	37.9	41.9	45.4	44.8
140°	35.2	37.7	41.3	45.0	44.7
142.5°	35.2	37.5	40.8	44.6	44.2
145°	35.4	37.5	40.6	44.0	43.9
147.5°	35.6	37.5	40.8	43.1	43.2
150°	35.9	37.5	40.8	42.6	42.5
152.5°	36.3	37.6	40.5	42.0	41.9
155°	36.7	37.6	40.2	41.7	41.6
157.5°	37.1	37.8	40.0	41.2	41.3
160°	37.5	38.2	39.9	40.7	40.8
162.5°	38.0	38.5	39.7	40.0	40.1
165°	38.3	38.7	39.7	39.8	39.7
167.5°	38.6	38.9	39.7	39.5	39.4
170°	38.7	38.9	39.6	39.4	39.0
172.5°	38.8	39.0	39.4	39.0	38.6
175°	38.8	38.9	39.2	38.8	38.0
177.5°	38.7	38.8	39.0	38.5	37.8
180°	38.5	38.5	38.5	38.5	38.5

(END OF REPORT)