

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: 20672

Luminaire Tested: **IQ-WB-2T8-DL7**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 20672  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: IQ-WB-2T8-DL7  
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: -

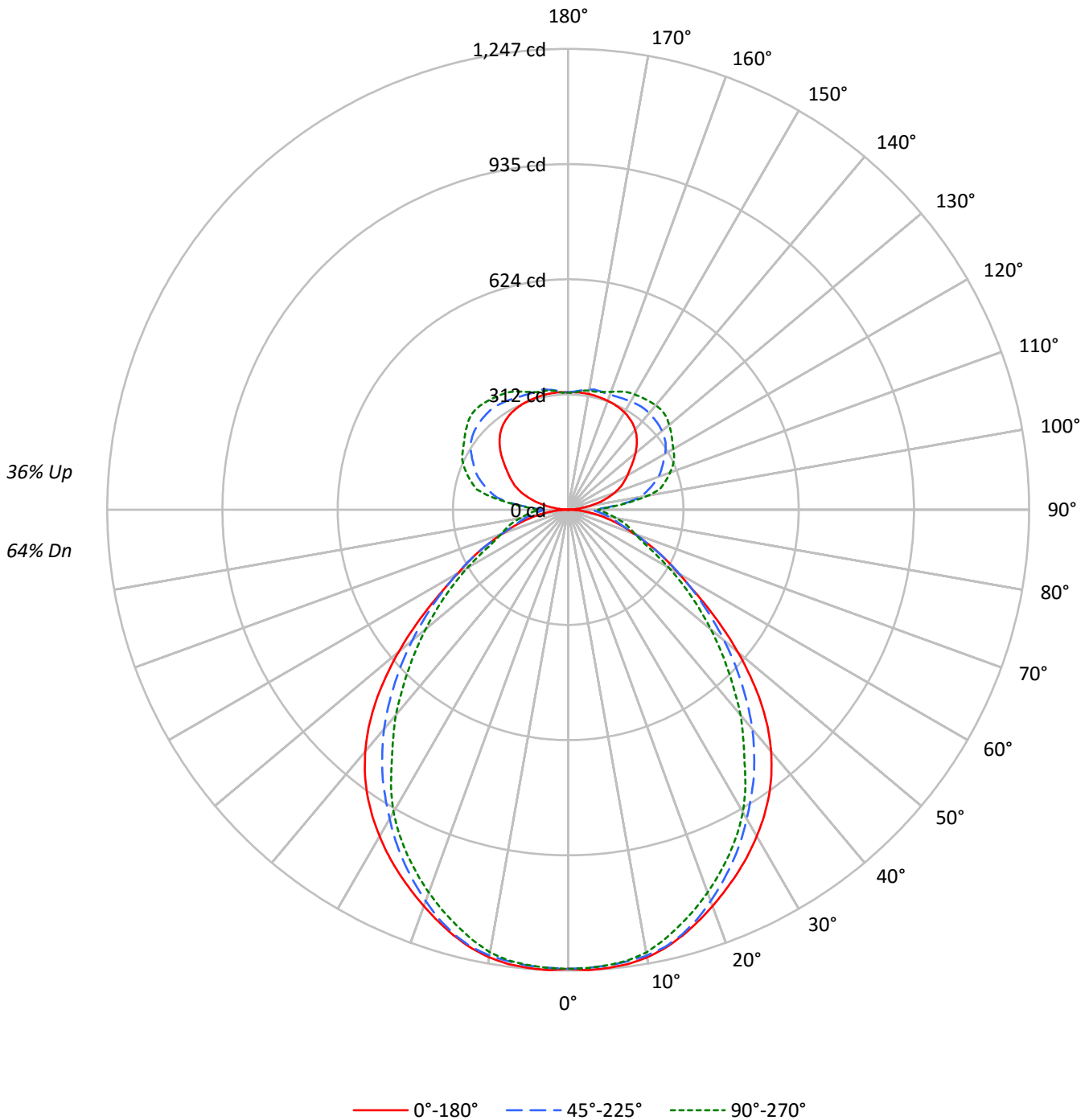
**Summary**

Lumens per Lamp: 3000 (2 lamps)  
Luminaire Lumens: 4514.9 lumens  
Efficiency: 75.2%  
Efficacy: 75.2 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.14 / 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): 60  
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	83	83	83	83	78	78	78	78	69	69	69	60	60	60	52	52	52	48				
1	76	73	70	67	71	68	66	63	60	58	57	53	52	50	46	45	44	41				
2	70	64	59	55	65	60	56	53	53	50	47	47	44	42	41	39	38	35				
3	64	56	51	47	60	53	48	44	47	43	40	42	39	36	37	34	32	30				
4	58	50	44	40	55	48	42	38	42	38	35	37	34	31	33	30	28	26				
5	54	45	39	34	50	43	37	33	38	34	30	34	30	27	30	27	25	23				
6	50	41	34	30	47	38	33	29	34	30	27	31	27	24	27	24	22	20				
7	46	37	31	27	43	35	29	26	31	27	24	28	24	22	25	22	20	18				
8	43	34	28	24	40	32	27	23	29	24	21	26	22	19	23	20	18	16				
9	40	31	25	21	38	29	24	20	26	22	19	24	20	18	21	18	16	15				
10	37	28	23	19	35	27	22	19	24	20	17	22	19	16	20	17	15	13				

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

	0°	45°	90°
0°	11387	11387	11387
5°	11437	11251	11198
10°	11415	11119	10960
15°	11275	10873	10525
20°	11068	10445	10066
25°	10883	9970	9578
30°	10698	9439	9028
35°	10470	8904	8224
40°	10082	8274	7499
45°	9404	7510	6657
50°	8372	6701	5863
55°	7155	5880	5095
60°	6125	5094	4353
65°	5534	4359	3671
70°	4839	3680	3408
75°	4412	3274	3436
80°	3932	3264	3361
85°	3075	3400	3463



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	117.8	2.6	2.0
10°-20°	333.3	7.4	5.6
20°-30°	486.5	10.8	8.1
30°-40°	551.9	12.2	9.2
40°-50°	515.7	11.4	8.6
50°-60°	397.0	8.8	6.6
60°-70°	258.1	5.7	4.3
70°-80°	155.3	3.4	2.6
80°-90°	85.9	1.9	1.4
90°-100°	121.0	2.7	2.0
100°-110°	224.1	5.0	3.7
110°-120°	260.0	5.8	4.3
120°-130°	267.0	5.9	4.5
130°-140°	252.0	5.6	4.2
140°-150°	210.7	4.7	3.5
150°-160°	154.7	3.4	2.6
160°-170°	93.0	2.1	1.6
170°-180°	30.8	0.7	0.5
0°-30°	937.6	20.8	15.6
0°-40°	1489.5	33.0	24.8
0°-60°	2402.2	53.2	40.0
0°-90°	2901.5	64.3	48.4
90°-120°	605.1	13.4	10.1
90°-150°	1334.8	29.6	22.2
90°-180°	1613.0	35.7	26.9
0°-180°	4514.9	100.0	75.2

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1242	1242	1242	1242	1242	
5°	1245	1237	1238	1240	1237	118
15°	1194	1193	1190	1175	1165	336
25°	1084	1080	1052	1041	1030	500
35°	946	921	876	850	832	590
45°	737	718	663	624	610	565
55°	458	481	444	414	404	413
65°	264	272	263	244	237	261
75°	132	133	142	158	165	141
85°	35	55	86	100	104	38
90°	0	38	68	79	81	3
95°	22	99	130	133	136	26
105°	98	182	230	260	267	103
115°	162	221	281	311	316	159
125°	209	254	321	342	342	188
135°	263	286	337	368	368	202
145°	295	308	342	364	365	185
155°	310	322	334	350	352	143
165°	316	324	332	332	330	89
175°	319	319	323	323	321	30
180°	317	317	317	317	317	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1242.4	1242.4	1242.4	1242.4	1242.4
2.5°	1247.0	1238.3	1240.6	1241.9	1241.0
5°	1244.9	1237.3	1238.3	1239.8	1237.1
7.5°	1239.9	1232.8	1232.8	1232.9	1230.3
10°	1230.1	1225.2	1225.1	1221.5	1216.6
12.5°	1214.7	1211.6	1211.8	1201.3	1193.0
15°	1193.5	1193.0	1190.1	1175.2	1164.9
17.5°	1168.3	1168.7	1161.4	1144.5	1135.1
20°	1141.5	1141.9	1127.1	1112.9	1102.5
22.5°	1113.4	1112.9	1090.7	1078.9	1067.2
25°	1084.3	1079.6	1052.1	1041.1	1029.9
27.5°	1053.7	1043.6	1010.9	1001.4	989.8
30°	1020.4	1004.9	966.1	956.8	945.4
32.5°	985.0	964.0	921.2	904.5	892.0
35°	946.5	920.6	876.1	849.8	831.5
37.5°	903.2	874.9	826.4	793.7	777.3
40°	854.2	825.7	775.2	737.3	725.4
42.5°	799.1	773.9	719.5	682.0	666.5
45°	737.4	717.9	662.9	623.7	609.9
47.5°	668.7	658.9	606.9	567.8	556.5
50°	598.6	599.0	550.7	514.7	503.1
52.5°	527.9	539.0	495.7	463.6	452.7
55°	458.2	481.3	443.7	414.4	404.2
57.5°	395.4	424.1	394.2	367.3	357.9
60°	343.6	368.0	347.3	323.7	314.6
62.5°	303.5	316.8	303.8	282.9	273.9
65°	264.1	271.6	263.1	244.1	237.3
67.5°	223.5	231.3	225.3	211.9	211.5
70°	188.7	195.2	191.7	189.9	192.7
72.5°	160.5	162.7	162.9	173.0	178.2
75°	132.2	132.7	142.2	158.5	164.9
77.5°	105.3	105.7	126.3	144.9	149.5
80°	81.4	84.1	112.4	128.0	131.4
82.5°	58.4	68.0	98.7	113.8	117.3
85°	34.7	55.0	85.6	100.3	103.5
87.5°	11.2	43.1	72.9	87.0	90.4
90°	0.0	38.5	67.7	78.6	80.6
92.5°	7.4	66.5	91.6	96.0	99.0
95°	22.1	98.9	129.6	132.7	136.2
97.5°	40.7	122.1	167.6	170.4	175.8
100°	60.4	146.6	197.7	212.3	219.2
102.5°	79.3	168.2	214.3	246.1	253.2
105°	98.0	182.2	229.8	260.4	267.1
107.5°	115.9	193.8	244.8	276.0	280.5
110°	132.9	205.1	260.0	287.7	293.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	148.4	213.5	271.2	299.1	305.1
115°	161.8	221.3	281.2	310.8	315.8
117.5°	173.4	228.8	292.0	319.0	323.0
120°	184.4	236.3	302.7	326.1	328.3
122.5°	196.2	244.6	312.8	333.6	334.6
125°	209.3	254.1	321.2	342.3	342.0
127.5°	223.7	263.4	326.8	350.8	349.5
130°	237.6	271.2	331.4	359.0	356.6
132.5°	250.6	278.9	335.0	364.8	363.4
135°	262.7	286.0	337.3	368.1	367.7
137.5°	273.2	292.7	339.1	369.1	369.4
140°	282.0	298.5	340.6	368.0	368.9
142.5°	289.4	303.3	341.9	366.4	367.0
145°	295.3	307.6	342.0	364.2	364.9
147.5°	300.1	312.0	340.2	361.5	362.4
150°	304.3	315.3	338.4	359.4	359.8
152.5°	307.3	318.7	336.2	355.6	357.2
155°	309.7	322.2	334.3	350.1	352.5
157.5°	311.8	324.5	332.5	344.6	345.8
160°	313.4	324.7	331.0	339.6	339.5
162.5°	314.8	324.6	330.7	335.1	334.0
165°	316.0	324.2	332.1	331.8	329.5
167.5°	317.2	323.2	332.7	331.3	327.5
170°	318.0	322.2	329.9	331.6	327.6
172.5°	318.3	320.6	326.7	327.6	325.3
175°	318.7	319.0	322.8	322.7	320.7
177.5°	318.3	318.0	319.7	318.3	316.6
180°	317.2	317.2	317.2	317.2	317.2

(END OF REPORT)