

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: 20651

Luminaire Tested: **IQ-WB-2T8-DL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 20651
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: IQ-WB-2T8-DL3
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

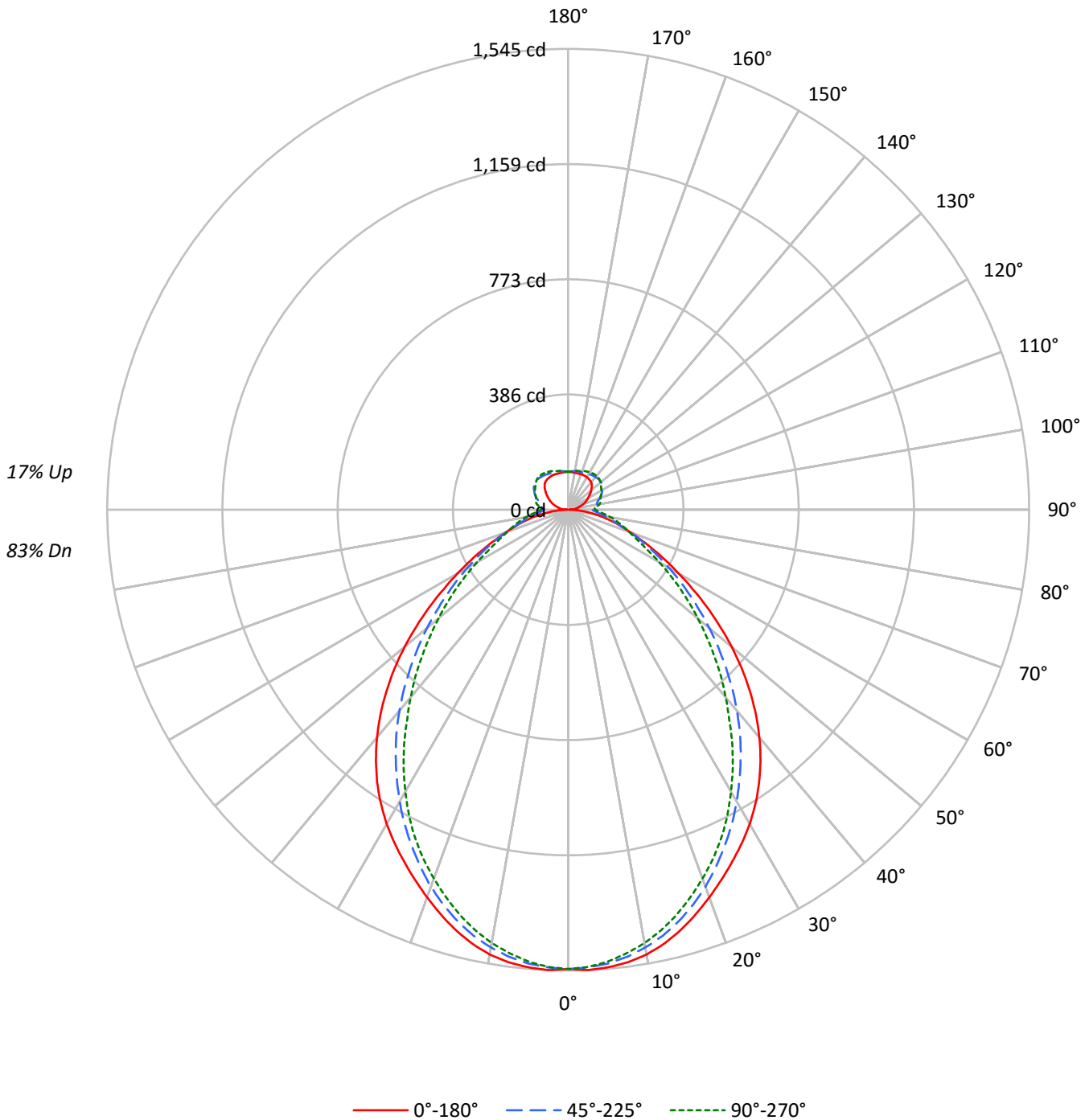
Lumens per Lamp: 3000 (2 lamps)
Luminaire Lumens: 4074.8 lumens
Efficiency: 67.9%
Efficacy: 67.9 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.08 / 1.2
Luminous Opening: Rectangular w/ Sides (W: 0.32' x L: 3.67' x H: 0.06')
CIE Type: Semi-Direct

Input Watts (W): 60
Input Voltage (V): NR
Input Current (A_{in}): 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	78	78	78	78	75	75	75	75	69	69	69		63	63	63		59	59	59	56
1	72	68	66	63	68	66	63	61	61	59	57		56	55	53		52	51	50	48
2	65	60	56	52	63	58	54	51	54	51	48		50	47	45		46	44	42	40
3	60	53	48	44	57	52	47	43	48	44	41		45	41	39		41	39	37	35
4	55	48	42	38	53	46	41	37	43	39	35		40	37	34		37	34	32	30
5	51	43	37	33	49	42	36	32	39	34	31		36	33	30		34	31	28	27
6	47	39	33	29	45	38	32	29	35	31	27		33	29	26		31	28	25	24
7	44	35	30	26	42	34	29	25	32	28	24		30	26	24		28	25	23	21
8	41	32	27	23	39	31	26	23	30	25	22		28	24	21		26	23	20	19
9	38	30	25	21	37	29	24	21	27	23	20		26	22	19		24	21	19	17
10	36	28	22	19	35	27	22	19	25	21	18		24	20	18		23	19	17	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14114	14114	14114
5°	14147	13875	13767
10°	14051	13527	13291
15°	13779	13057	12698
20°	13406	12465	12019
25°	13063	11770	11291
30°	12753	11036	10421
35°	12344	10243	9481
40°	11766	9389	8490
45°	10995	8462	7548
50°	10006	7512	6614
55°	8835	6574	5729
60°	7635	5735	4875
65°	6577	4937	4176
70°	5699	4223	3838
75°	5153	3762	3708
80°	4594	3656	3689
85°	3562	3773	3710



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	144.7	3.6	2.4
10°-20°	402.0	9.9	6.7
20°-30°	574.3	14.1	9.6
30°-40°	636.9	15.6	10.6
40°-50°	587.7	14.4	9.8
50°-60°	454.3	11.1	7.6
60°-70°	296.7	7.3	4.9
70°-80°	176.4	4.3	2.9
80°-90°	96.6	2.4	1.6
90°-100°	81.6	2.0	1.4
100°-110°	97.7	2.4	1.6
110°-120°	109.3	2.7	1.8
120°-130°	112.4	2.8	1.9
130°-140°	105.2	2.6	1.8
140°-150°	86.5	2.1	1.4
150°-160°	62.6	1.5	1.0
160°-170°	37.4	0.9	0.6
170°-180°	12.3	0.3	0.2
0°-30°	1121.0	27.5	18.7
0°-40°	1757.9	43.1	29.3
0°-60°	2799.9	68.7	46.7
0°-90°	3369.7	82.7	56.2
90°-120°	288.6	7.1	4.8
90°-150°	592.7	14.5	9.9
90°-180°	705.0	17.3	11.8
0°-180°	4074.8	100.0	67.9

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1540	1540	1540	1540	1540	
5°	1540	1528	1527	1523	1521	146
15°	1458	1444	1429	1413	1405	410
25°	1302	1269	1242	1227	1214	600
35°	1116	1060	1008	973	959	696
45°	862	820	747	706	692	663
55°	566	554	496	465	454	507
65°	314	316	298	277	270	314
75°	154	153	163	177	178	164
85°	40	62	95	110	111	44
90°	3	46	80	92	91	4
95°	21	57	88	98	92	18
105°	40	76	101	114	111	43
115°	65	98	124	127	122	64
125°	88	110	140	141	134	79
135°	112	121	145	152	147	86
145°	124	127	141	148	147	77
155°	127	130	136	142	142	58
165°	126	128	133	135	134	36
175°	126	127	129	130	129	12
180°	127	127	127	127	127	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1539.9	1539.9	1539.9	1539.9	1539.9
2.5°	1545.1	1536.1	1535.9	1535.0	1534.0
5°	1539.8	1528.2	1527.1	1522.8	1520.9
7.5°	1530.3	1517.5	1511.8	1505.5	1500.1
10°	1514.1	1500.8	1490.4	1480.8	1475.3
12.5°	1490.1	1476.6	1463.1	1449.6	1443.0
15°	1458.5	1443.5	1429.2	1413.2	1405.4
17.5°	1422.3	1404.2	1389.6	1372.9	1362.4
20°	1382.6	1360.8	1345.0	1328.0	1316.3
22.5°	1342.4	1316.2	1295.4	1279.6	1267.3
25°	1301.6	1268.9	1242.1	1227.1	1214.1
27.5°	1260.2	1219.5	1188.0	1170.6	1155.6
30°	1216.4	1167.5	1129.6	1109.5	1091.3
32.5°	1168.5	1114.7	1068.7	1042.9	1026.0
35°	1115.9	1060.4	1007.9	973.3	958.6
37.5°	1058.8	1004.4	945.6	907.2	886.8
40°	996.9	945.8	879.6	839.6	821.2
42.5°	931.2	885.0	813.5	771.8	757.3
45°	862.1	820.2	746.9	706.5	691.5
47.5°	790.0	753.1	681.2	641.9	628.2
50°	715.4	685.7	617.3	579.8	567.5
52.5°	640.3	619.8	555.0	520.7	509.8
55°	565.8	554.5	496.1	465.0	454.5
57.5°	493.8	489.9	442.3	413.4	401.9
60°	428.3	427.7	391.0	364.6	352.3
62.5°	368.1	369.2	342.8	318.0	307.6
65°	313.9	316.2	298.0	277.2	270.0
67.5°	264.2	268.9	257.1	243.6	240.1
70°	222.2	226.5	220.0	216.0	217.0
72.5°	186.6	188.0	188.3	194.8	197.3
75°	154.4	152.7	163.4	176.9	178.0
77.5°	124.1	122.6	143.1	159.2	160.9
80°	95.1	97.3	125.9	142.4	144.2
82.5°	67.6	78.0	110.2	124.6	125.7
85°	40.2	61.8	95.0	109.9	110.9
87.5°	16.1	48.7	85.8	98.9	98.9
90°	2.9	45.7	80.5	92.4	91.1
92.5°	9.4	49.8	82.5	92.8	88.5
95°	20.8	56.6	88.5	98.1	92.3
97.5°	26.9	59.8	93.8	104.1	99.9
100°	30.7	64.0	96.2	110.1	106.6
102.5°	34.7	70.6	99.0	112.8	110.4
105°	40.0	76.5	101.4	114.3	111.2
107.5°	46.2	82.6	106.0	115.5	113.8
110°	52.8	88.6	112.9	119.1	115.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	59.3	93.6	118.9	122.6	117.6
115°	65.2	97.5	123.6	127.3	121.7
117.5°	70.8	101.2	127.9	131.5	125.4
120°	76.2	104.3	132.1	134.9	128.2
122.5°	82.0	107.1	136.4	137.8	131.4
125°	88.2	109.9	139.9	141.1	134.4
127.5°	94.3	112.9	142.5	144.1	137.6
130°	100.3	116.0	143.6	147.5	141.1
132.5°	106.2	118.7	144.5	149.7	144.6
135°	111.7	121.0	144.6	151.6	146.6
137.5°	116.4	122.9	143.8	151.5	148.2
140°	119.8	124.7	142.7	150.8	148.0
142.5°	122.0	126.1	141.8	150.0	147.7
145°	123.6	127.2	140.6	148.2	147.4
147.5°	124.8	128.1	139.6	146.4	146.1
150°	125.6	128.8	137.9	145.1	144.7
152.5°	126.2	129.5	136.7	143.4	143.3
155°	126.6	129.9	135.6	141.8	141.9
157.5°	126.6	129.7	134.4	139.9	140.1
160°	126.4	129.4	133.4	138.1	137.8
162.5°	126.0	128.9	133.2	136.4	135.6
165°	125.7	128.4	133.3	135.4	134.1
167.5°	125.7	127.7	132.8	135.1	133.5
170°	125.9	127.4	131.6	134.2	132.2
172.5°	126.1	127.2	130.3	132.6	130.9
175°	126.4	127.1	129.1	130.4	128.7
177.5°	126.6	126.7	128.2	129.1	127.3
180°	127.3	127.3	127.3	127.3	127.3

(END OF REPORT)