

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: 20650

Luminaire Tested: **IQ-WB-2T8-DL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 20650
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: IQ-WB-2T8-DL2
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

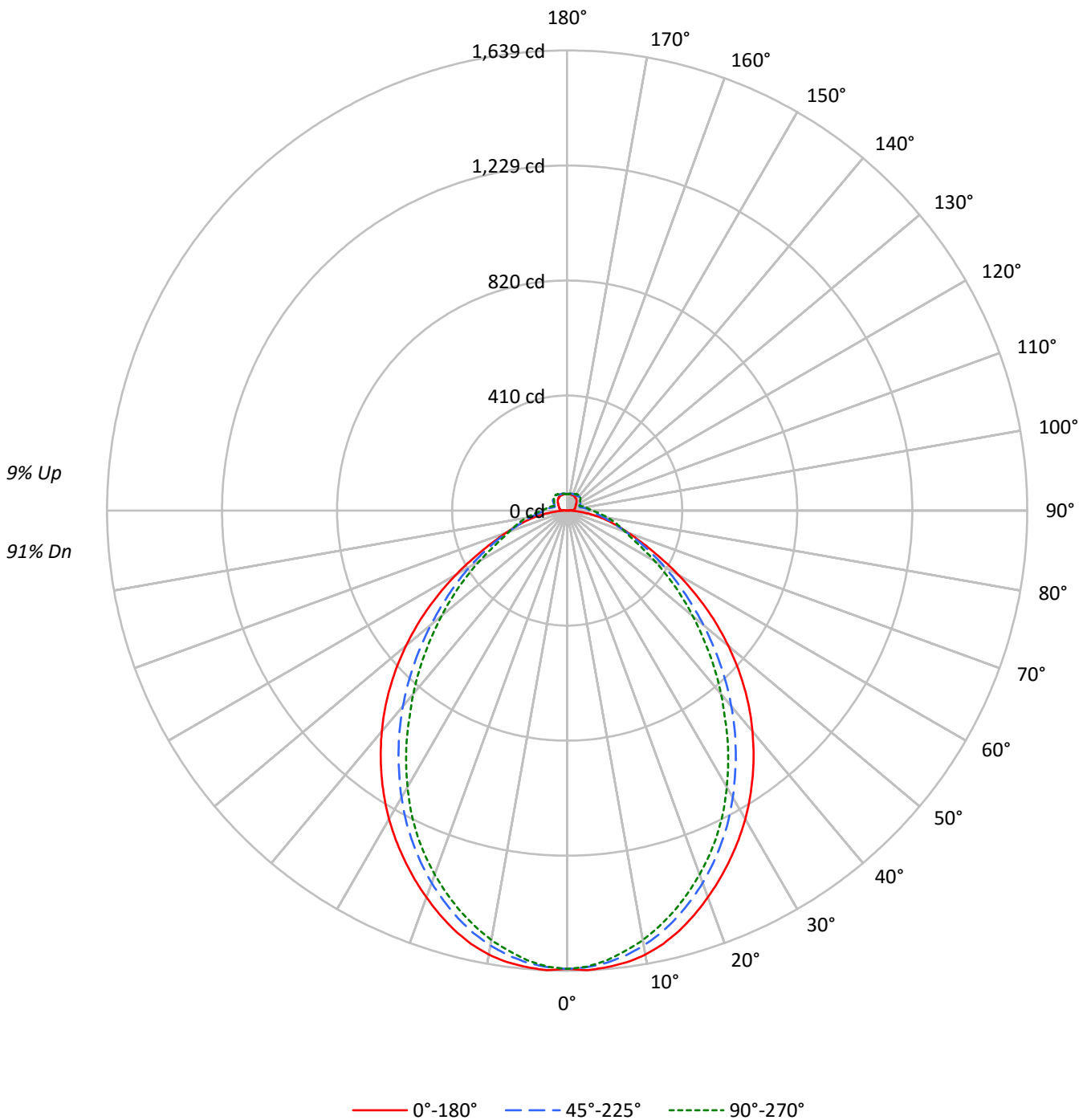
Lumens per Lamp: 3000 (2 lamps)
Luminaire Lumens: 3852.3 lumens
Efficiency: 64.2%
Efficacy: 64.2 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.07 / 1.19
Luminous Opening: Rectangular w/ Sides (W: 0.32' x L: 3.67' x H: 0.06')
CIE Type: Direct

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	50	30	10	0	
RCR																						
0	75	75	75	75	73	73	73	73	68	68	68	64	64	64	60	60	60	60	60	60	58	
1	69	66	63	61	66	64	62	59	60	58	56	57	55	54	53	52	51	51	51	51	49	
2	63	58	54	51	61	56	53	50	53	50	48	50	48	46	48	46	44	44	44	44	42	
3	58	52	47	43	56	50	46	42	47	44	41	45	42	39	43	40	38	38	38	38	36	
4	53	46	41	37	51	45	40	36	43	39	35	41	37	34	39	36	33	33	33	33	32	
5	49	42	36	32	48	41	36	32	39	34	31	37	33	30	35	32	29	29	29	29	28	
6	46	38	32	28	44	37	32	28	35	31	27	33	30	27	32	29	26	26	26	26	25	
7	43	34	29	25	41	34	29	25	32	28	25	31	27	24	29	26	23	23	23	23	22	
8	40	32	26	23	38	31	26	23	30	25	22	28	24	22	27	24	21	21	21	21	20	
9	37	29	24	21	36	28	24	20	27	23	20	26	22	20	25	22	19	19	19	19	18	
10	35	27	22	19	34	26	22	19	25	21	18	24	21	18	23	20	18	18	18	18	17	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14963	14963	14963
5°	15001	14693	14559
10°	14906	14279	13996
15°	14625	13728	13330
20°	14215	13082	12598
25°	13775	12347	11799
30°	13305	11531	10858
35°	12754	10643	9855
40°	12124	9710	8814
45°	11384	8720	7789
50°	10481	7705	6804
55°	9406	6738	5880
60°	8134	5873	4990
65°	6868	5031	4249
70°	5945	4302	3889
75°	5374	3843	3796
80°	4768	3752	3788
85°	3677	3901	3841



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	153.1	4.0	2.6
10°-20°	423.5	11.0	7.1
20°-30°	601.8	15.6	10.0
30°-40°	660.9	17.2	11.0
40°-50°	606.4	15.7	10.1
50°-60°	469.1	12.2	7.8
60°-70°	305.0	7.9	5.1
70°-80°	181.1	4.7	3.0
80°-90°	99.4	2.6	1.7
90°-100°	65.1	1.7	1.1
100°-110°	50.3	1.3	0.8
110°-120°	47.6	1.2	0.8
120°-130°	49.3	1.3	0.8
130°-140°	47.7	1.2	0.8
140°-150°	39.7	1.0	0.7
150°-160°	29.0	0.8	0.5
160°-170°	17.5	0.5	0.3
170°-180°	5.8	0.1	0.1
0°-30°	1178.4	30.6	19.6
0°-40°	1839.4	47.7	30.7
0°-60°	2914.9	75.7	48.6
0°-90°	3500.5	90.9	58.3
90°-120°	163.0	4.2	2.7
90°-150°	299.7	7.8	5.0
90°-180°	352.0	9.1	5.9
0°-180°	3852.3	100.0	64.2

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1632	1632	1632	1632	1632	
5°	1633	1619	1617	1613	1608	155
15°	1548	1527	1503	1484	1475	436
25°	1372	1331	1303	1283	1269	632
35°	1153	1097	1047	1012	996	720
45°	893	842	770	730	714	687
55°	602	572	508	478	466	538
65°	328	327	304	282	275	330
75°	161	158	167	181	182	171
85°	42	64	98	114	115	46
90°	1	44	80	92	90	4
95°	21	41	71	80	76	18
105°	28	39	48	57	56	30
115°	32	45	52	54	49	32
125°	39	48	62	62	57	35
135°	48	54	66	71	66	37
145°	54	57	65	70	68	34
155°	58	59	63	67	65	26
165°	59	60	62	64	62	17
175°	59	59	60	61	59	6
180°	59	59	59	59	59	



TEST NUMBER: 20650

CATALOG NUMBER: IQ-WB-2T8-DL2

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1632.5	1632.5	1632.5	1632.5	1632.5
2.5°	1638.6	1627.6	1627.6	1627.3	1625.6
5°	1632.8	1619.1	1617.1	1612.6	1608.4
7.5°	1623.0	1606.8	1598.3	1590.0	1582.5
10°	1606.2	1588.5	1573.2	1560.8	1553.6
12.5°	1581.1	1562.4	1541.5	1524.2	1516.4
15°	1548.0	1526.8	1502.6	1484.4	1475.4
17.5°	1509.1	1483.6	1458.8	1441.0	1428.9
20°	1466.1	1435.0	1411.6	1392.7	1379.8
22.5°	1420.5	1384.3	1359.0	1340.2	1326.0
25°	1372.5	1330.6	1303.0	1283.4	1268.7
27.5°	1322.1	1275.1	1244.2	1222.4	1205.5
30°	1269.0	1217.0	1180.2	1156.6	1137.0
32.5°	1212.3	1158.0	1113.4	1085.6	1067.7
35°	1152.9	1097.4	1047.2	1011.6	996.4
37.5°	1091.1	1035.6	979.7	942.2	921.0
40°	1027.2	973.0	909.7	871.3	852.6
42.5°	961.2	908.8	839.9	800.2	784.1
45°	892.6	842.5	769.7	730.4	713.6
47.5°	821.8	774.3	700.5	662.8	647.1
50°	749.4	705.6	633.2	598.1	583.8
52.5°	676.2	638.4	568.8	536.2	523.4
55°	602.4	571.5	508.5	478.3	466.5
57.5°	528.4	505.4	453.4	425.3	412.1
60°	456.3	441.0	400.4	373.9	360.6
62.5°	388.9	381.2	350.3	325.1	313.7
65°	327.8	327.4	303.7	282.5	274.7
67.5°	275.1	279.2	261.6	247.8	243.6
70°	231.8	235.2	224.1	219.8	219.9
72.5°	195.0	194.9	192.1	198.3	200.1
75°	161.0	157.9	166.9	181.1	182.2
77.5°	128.9	126.5	146.6	162.9	164.5
80°	98.7	100.4	129.2	146.3	148.1
82.5°	70.1	80.8	113.5	128.9	129.9
85°	41.5	64.2	98.2	114.1	114.8
87.5°	15.8	50.5	88.8	102.6	101.6
90°	1.1	43.7	80.1	92.5	90.5
92.5°	9.7	42.2	76.3	86.5	82.8
95°	21.4	40.9	71.3	80.4	75.9
97.5°	25.2	36.7	65.7	75.1	71.4
100°	26.5	35.8	58.5	70.2	67.3
102.5°	27.5	37.6	51.9	63.7	62.7
105°	28.5	38.7	47.5	57.2	55.7
107.5°	29.4	40.2	46.0	52.7	52.0
110°	30.5	42.5	47.8	51.2	48.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	31.7	44.0	49.9	51.6	47.0
115°	32.5	45.1	51.6	54.0	48.9
117.5°	33.5	46.2	53.4	56.3	51.1
120°	35.0	46.9	56.0	58.4	53.0
122.5°	36.7	47.5	59.3	60.3	55.0
125°	38.8	48.3	61.5	62.3	56.7
127.5°	40.9	49.4	63.6	64.7	58.7
130°	43.0	51.0	65.0	67.7	61.5
132.5°	45.4	52.5	65.8	69.2	64.3
135°	47.7	53.8	66.3	70.8	65.9
137.5°	49.5	54.8	66.2	71.7	67.7
140°	51.2	55.6	65.7	71.7	68.6
142.5°	52.5	56.3	65.2	71.2	68.7
145°	53.8	56.9	64.7	70.4	68.5
147.5°	54.9	57.5	64.3	69.4	67.7
150°	55.8	57.9	64.2	68.5	66.8
152.5°	56.8	58.4	63.7	67.6	65.9
155°	57.5	58.9	63.2	66.8	65.2
157.5°	57.9	59.1	62.8	66.3	64.8
160°	58.1	59.3	62.7	65.5	63.8
162.5°	58.5	59.6	62.3	64.7	62.9
165°	58.9	59.7	62.2	64.0	62.2
167.5°	59.1	59.8	61.7	63.6	61.7
170°	59.2	59.6	61.3	62.8	60.9
172.5°	59.2	59.4	60.7	62.1	60.1
175°	59.2	59.2	60.1	61.2	59.2
177.5°	59.0	58.9	59.6	60.2	58.4
180°	59.1	59.1	59.1	59.1	59.1

(END OF REPORT)