

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: 20652

Luminaire Tested: **IQ-WB-2T8-DL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 20652
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: IQ-WB-2T8-DL4
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

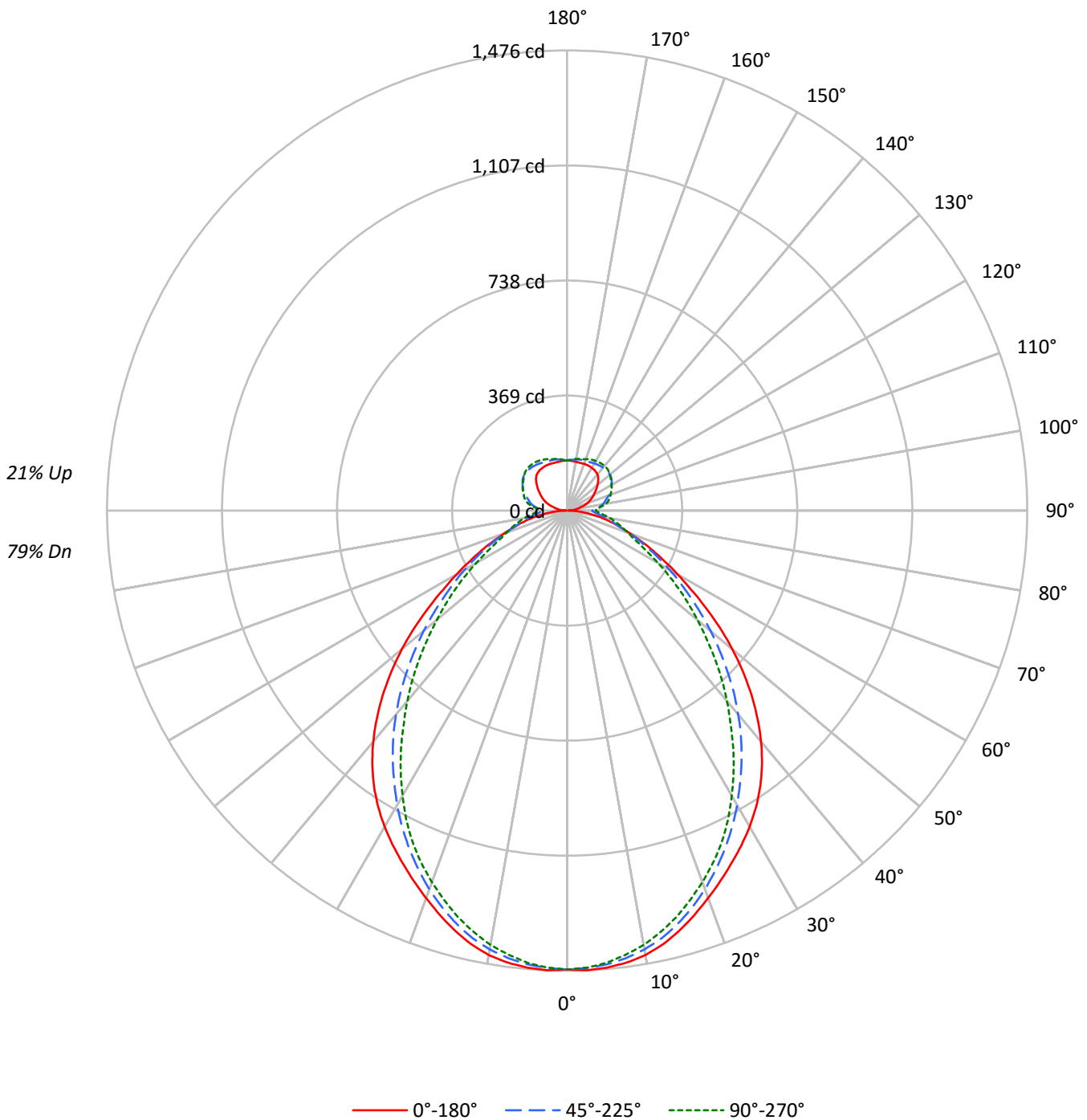
Lumens per Lamp: 3000 (2 lamps)
Luminaire Lumens: 4126.0 lumens
Efficiency: 68.8%
Efficacy: 68.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.09 / 1.21
Luminous Opening: Rectangular w/ Sides (W: 0.32' x L: 3.67' x H: 0.06')
CIE Type: Semi-Direct

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	68	68	68		62	62	62		57	57	57	54
1	72	69	66	63	68	66	63	61	60	58	57		55	54	52		50	49	48	46
2	66	61	56	53	63	58	54	51	53	50	47		49	46	44		45	43	41	39
3	60	54	48	44	57	51	47	43	47	44	40		44	41	38		40	38	36	34
4	55	48	42	38	53	46	41	37	42	38	35		39	36	33		36	33	31	29
5	51	43	37	33	49	41	36	32	38	34	31		36	32	29		33	30	27	26
6	47	39	33	29	45	37	32	28	35	30	27		32	29	26		30	27	24	23
7	44	35	30	26	42	34	29	25	32	27	24		30	26	23		28	24	22	20
8	41	32	27	23	39	31	26	23	29	25	22		27	23	21		25	22	20	18
9	38	30	24	21	37	29	24	20	27	23	20		25	21	19		24	20	18	17
10	36	27	22	19	34	27	22	19	25	21	18		23	20	17		22	19	16	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13490	13490	13490
5°	13517	13275	13178
10°	13432	12973	12743
15°	13172	12536	12200
20°	12826	11978	11579
25°	12525	11346	10912
30°	12276	10652	10086
35°	11950	9912	9185
40°	11423	9114	8242
45°	10659	8225	7290
50°	9674	7308	6362
55°	8466	6375	5495
60°	7291	5565	4658
65°	6353	4769	3974
70°	5514	4066	3643
75°	4993	3627	3563
80°	4492	3540	3589
85°	3500	3674	3620



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	138.4	3.4	2.3
10°-20°	385.6	9.3	6.4
20°-30°	553.2	13.4	9.2
30°-40°	616.6	14.9	10.3
40°-50°	569.8	13.8	9.5
50°-60°	438.7	10.6	7.3
60°-70°	285.5	6.9	4.8
70°-80°	169.9	4.1	2.8
80°-90°	94.3	2.3	1.6
90°-100°	89.2	2.2	1.5
100°-110°	121.6	2.9	2.0
110°-120°	138.2	3.3	2.3
120°-130°	141.2	3.4	2.4
130°-140°	132.2	3.2	2.2
140°-150°	109.2	2.6	1.8
150°-160°	79.3	1.9	1.3
160°-170°	47.4	1.1	0.8
170°-180°	15.6	0.4	0.3
0°-30°	1077.2	26.1	18.0
0°-40°	1693.8	41.1	28.2
0°-60°	2702.4	65.5	45.0
0°-90°	3252.1	78.8	54.2
90°-120°	349.0	8.5	5.8
90°-150°	731.6	17.7	12.2
90°-180°	874.0	21.2	14.6
0°-180°	4126.0	100.0	68.8

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1472	1472	1472	1472	1472	
5°	1471	1461	1461	1457	1456	140
15°	1394	1383	1372	1357	1350	392
25°	1248	1220	1197	1185	1173	575
35°	1080	1027	975	942	929	674
45°	836	796	726	683	668	643
55°	542	538	481	448	436	487
65°	303	306	288	265	257	303
75°	150	148	158	170	171	159
85°	40	60	92	107	108	43
90°	3	46	80	92	92	4
95°	20	64	96	104	102	19
105°	50	98	128	142	140	53
115°	84	123	155	160	157	83
125°	112	139	174	176	171	100
135°	141	153	181	189	185	108
145°	156	161	177	187	186	98
155°	159	165	172	180	180	74
165°	158	162	169	171	171	45
175°	160	161	163	165	163	15
180°	161	161	161	161	161	



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CATALOG NUMBER: IQ-WB-2T8-DL4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1471.8	1471.8	1471.8	1471.8	1471.8
2.5°	1475.9	1468.1	1468.3	1467.7	1467.3
5°	1471.3	1460.8	1461.1	1457.4	1455.8
7.5°	1462.5	1450.8	1448.0	1441.7	1436.8
10°	1447.4	1435.7	1429.3	1419.9	1414.5
12.5°	1424.4	1413.5	1404.5	1390.8	1384.7
15°	1394.2	1382.9	1372.2	1357.1	1350.3
17.5°	1359.5	1345.9	1334.5	1320.0	1310.3
20°	1322.8	1305.0	1292.5	1278.7	1268.2
22.5°	1285.6	1263.3	1246.4	1233.9	1222.8
25°	1248.0	1219.5	1197.3	1185.1	1173.4
27.5°	1210.4	1173.5	1145.7	1131.6	1117.6
30°	1170.9	1125.6	1090.2	1072.7	1056.2
32.5°	1127.9	1076.8	1032.6	1009.2	993.8
35°	1080.2	1026.6	975.3	942.3	928.7
37.5°	1026.8	973.7	916.4	878.7	860.7
40°	967.8	918.3	853.9	814.2	797.2
42.5°	903.8	859.3	790.5	747.6	734.1
45°	835.8	796.4	726.0	683.1	667.9
47.5°	765.0	731.5	662.6	619.2	605.7
50°	691.7	666.0	600.6	558.6	545.9
52.5°	617.1	601.8	539.6	500.9	489.7
55°	542.2	537.9	481.1	447.7	436.0
57.5°	470.5	474.8	428.6	397.9	384.8
60°	409.0	413.7	379.4	349.5	336.6
62.5°	352.6	357.1	332.0	304.1	293.2
65°	303.2	306.2	287.9	264.6	256.9
67.5°	256.3	260.5	247.6	232.4	227.9
70°	215.0	219.3	211.8	206.3	206.0
72.5°	180.3	181.5	181.4	186.2	187.6
75°	149.6	147.5	157.5	170.1	171.0
77.5°	120.6	118.4	138.3	153.4	155.0
80°	93.0	94.3	121.9	138.2	140.3
82.5°	66.2	75.6	107.0	121.6	122.6
85°	39.5	59.8	92.5	107.1	108.2
87.5°	15.4	47.1	83.6	96.5	97.0
90°	2.9	46.5	80.3	91.9	92.0
92.5°	9.3	53.2	84.5	94.2	93.1
95°	20.4	64.0	96.3	104.3	101.9
97.5°	27.2	71.5	107.6	115.9	115.1
100°	33.1	79.6	115.2	127.3	126.4
102.5°	41.3	89.8	122.6	134.7	134.0
105°	50.2	97.9	127.6	141.8	139.9
107.5°	59.2	105.2	134.2	145.1	144.8
110°	68.2	112.5	142.3	150.5	148.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	76.5	118.7	149.6	154.6	152.5
115°	84.0	123.1	155.1	160.1	157.0
117.5°	90.5	127.3	160.0	164.9	161.1
120°	97.3	131.4	164.9	168.9	164.3
122.5°	104.3	135.1	169.9	172.4	168.0
125°	111.8	138.8	174.2	176.2	171.4
127.5°	119.5	142.6	177.4	180.0	175.2
130°	126.9	146.6	179.0	184.0	179.0
132.5°	134.3	150.0	180.0	187.0	182.6
135°	141.2	153.0	180.7	189.4	185.2
137.5°	147.1	155.5	180.3	189.3	186.5
140°	151.2	158.0	179.2	188.8	186.5
142.5°	154.1	159.7	178.5	188.1	186.6
145°	156.1	161.2	177.2	186.6	186.3
147.5°	157.5	162.2	176.3	184.8	185.3
150°	158.4	163.2	174.8	183.4	183.9
152.5°	159.2	164.0	173.2	181.5	182.3
155°	159.4	164.7	171.7	179.5	180.4
157.5°	159.5	164.3	170.3	177.4	178.4
160°	159.2	163.7	169.2	174.8	175.5
162.5°	158.8	163.1	169.0	172.4	172.4
165°	158.5	162.2	168.9	171.4	170.9
167.5°	158.7	161.7	168.2	171.2	169.9
170°	158.9	161.2	166.5	169.7	168.2
172.5°	159.5	160.8	164.8	167.4	166.2
175°	159.9	160.7	163.3	164.6	163.4
177.5°	160.2	160.5	162.4	162.9	161.5
180°	161.4	161.4	161.4	161.4	161.4

(END OF REPORT)