

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: 20656

Luminaire Tested: **IQ-WB-2T8-DL8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 20656
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: IQ-WB-2T8-DL8
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

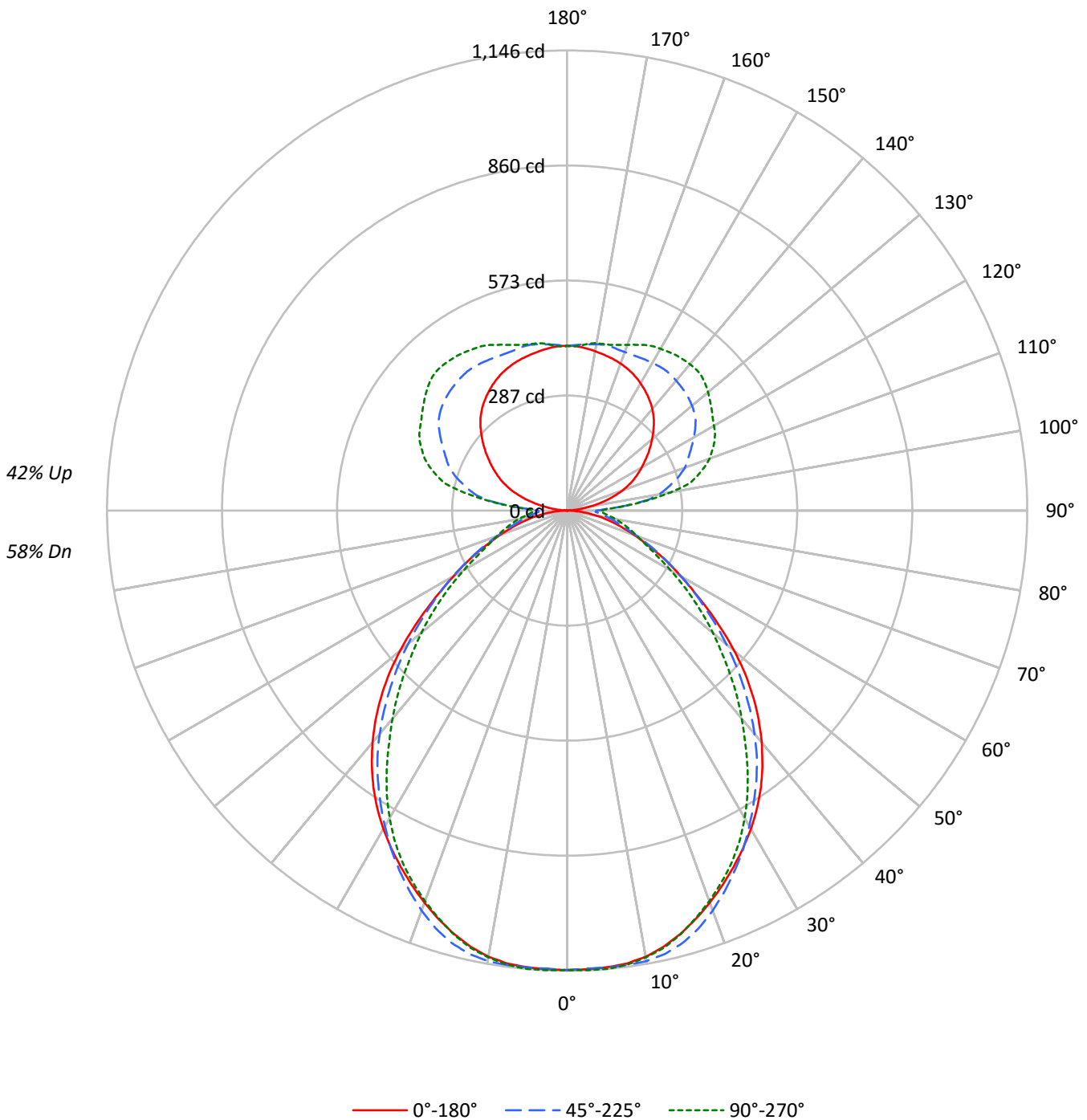
Lumens per Lamp: 3000 (2 lamps)
Luminaire Lumens: 4687.9 lumens
Efficiency: 78.1%
Efficacy: 78.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.26
Luminous Opening: Rectangular w/ Sides (W: 0.32' x L: 3.67' x H: 0.06')
CIE Type: General Diffuse

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	85	85	85	85	79	79	79	79	69	69	69		59	59	59		49	49	49	45
1	78	74	71	69	72	69	67	64	60	58	56		52	50	49		44	43	42	38
2	71	65	60	56	66	61	57	53	53	50	47		46	43	41		39	37	36	32
3	65	58	52	47	60	54	49	45	47	43	40		41	38	35		35	33	31	28
4	60	51	45	40	55	48	43	38	42	38	34		36	33	30		31	29	27	24
5	55	46	40	35	51	43	37	33	38	33	30		33	29	27		28	26	23	21
6	51	41	35	30	47	39	33	29	34	30	26		30	26	24		26	23	21	19
7	47	37	31	27	44	35	30	26	31	27	23		27	24	21		24	21	19	17
8	44	34	28	24	41	32	27	23	28	24	21		25	21	19		22	19	17	15
9	41	31	25	21	38	29	24	20	26	22	19		23	20	17		20	17	15	14
10	38	29	23	19	36	27	22	18	24	20	17		21	18	15		19	16	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10488	10488	10488
5°	10489	10378	10371
10°	10469	10338	10181
15°	10307	10180	9870
20°	10074	9823	9448
25°	9833	9368	9008
30°	9598	8867	8444
35°	9306	8349	7746
40°	8895	7753	6996
45°	8352	7045	6252
50°	7597	6297	5528
55°	6658	5519	4807
60°	5831	4820	4118
65°	5163	4150	3547
70°	4534	3545	3272
75°	4102	3175	3167
80°	3695	3081	3144
85°	2835	3158	3162



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	108.9	2.3	1.8
10°-20°	310.4	6.6	5.2
20°-30°	453.9	9.7	7.6
30°-40°	512.1	10.9	8.5
40°-50°	478.5	10.2	8.0
50°-60°	372.8	8.0	6.2
60°-70°	245.5	5.2	4.1
70°-80°	147.8	3.2	2.5
80°-90°	81.8	1.7	1.4
90°-100°	139.1	3.0	2.3
100°-110°	267.7	5.7	4.5
110°-120°	316.3	6.7	5.3
120°-130°	327.6	7.0	5.5
130°-140°	310.6	6.6	5.2
140°-150°	262.1	5.6	4.4
150°-160°	194.9	4.2	3.2
160°-170°	118.4	2.5	2.0
170°-180°	39.5	0.8	0.7
0°-30°	873.2	18.6	14.6
0°-40°	1385.3	29.6	23.1
0°-60°	2236.6	47.7	37.3
0°-90°	2711.7	57.8	45.2
90°-120°	723.1	15.4	12.1
90°-150°	1623.4	34.6	27.1
90°-180°	1976.0	42.2	32.9
0°-180°	4687.9	100.0	78.1

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1144	1144	1144	1144	1144	
5°	1142	1138	1142	1147	1146	109
15°	1091	1103	1114	1105	1092	307
25°	980	1004	989	983	969	451
35°	841	847	822	799	783	525
45°	655	657	622	591	573	503
55°	426	447	416	395	381	384
65°	246	255	250	236	229	245
75°	123	126	138	152	152	131
85°	32	51	80	93	94	36
90°	0	43	73	84	85	2
95°	18	114	149	157	152	23
105°	104	202	274	322	336	109
115°	183	258	336	391	405	180
125°	245	301	391	431	439	219
135°	306	341	416	463	473	235
145°	350	372	427	462	472	219
155°	380	400	422	446	455	175
165°	397	407	423	428	427	112
175°	408	409	415	416	413	39
180°	410	410	410	410	410	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1144.3	1144.3	1144.3	1144.3	1144.3
2.5°	1143.2	1139.3	1141.4	1146.1	1145.5
5°	1141.7	1138.2	1142.2	1146.7	1145.7
7.5°	1137.5	1136.6	1141.9	1146.8	1141.0
10°	1128.1	1130.9	1139.0	1138.3	1130.1
12.5°	1112.2	1119.8	1130.4	1125.1	1115.1
15°	1091.0	1102.9	1114.3	1104.6	1092.4
17.5°	1066.1	1082.4	1090.5	1078.3	1064.4
20°	1039.0	1059.2	1059.9	1049.0	1034.8
22.5°	1010.1	1033.7	1025.5	1017.2	1003.1
25°	979.7	1003.8	988.6	983.0	968.6
27.5°	948.3	969.8	949.7	944.5	929.2
30°	915.5	930.5	907.5	900.9	884.2
32.5°	879.9	889.9	864.6	852.0	836.0
35°	841.2	846.9	821.5	798.9	783.2
37.5°	798.9	802.5	776.1	748.8	728.3
40°	753.6	756.2	726.4	697.6	676.7
42.5°	705.7	707.8	674.5	643.2	625.6
45°	654.9	656.9	621.9	591.1	572.8
47.5°	600.9	604.7	569.7	539.0	521.6
50°	543.2	552.0	517.5	488.3	474.3
52.5°	484.3	499.6	466.2	441.0	427.0
55°	426.4	446.7	416.5	395.4	381.4
57.5°	373.1	393.6	371.3	352.1	338.0
60°	327.1	342.1	328.6	311.2	297.6
62.5°	285.1	295.7	288.0	271.8	260.1
65°	246.4	254.6	250.5	236.4	229.3
67.5°	209.0	218.3	216.0	208.2	204.5
70°	176.8	185.3	184.7	185.0	185.0
72.5°	148.2	154.7	158.5	167.0	168.7
75°	122.9	126.2	137.9	151.5	152.0
77.5°	99.3	101.3	120.9	135.7	137.6
80°	76.5	80.8	106.1	121.4	122.9
82.5°	54.5	64.6	92.8	106.1	107.1
85°	32.0	50.9	79.5	93.1	94.5
87.5°	12.7	40.0	70.6	84.3	85.8
90°	0.0	43.4	72.6	83.8	84.8
92.5°	3.9	74.1	99.0	105.3	101.4
95°	18.1	113.6	149.4	157.4	152.0
97.5°	36.2	137.7	202.2	212.0	206.4
100°	58.2	163.8	232.5	266.5	262.2
102.5°	80.7	186.9	253.9	301.5	311.8
105°	103.8	202.1	274.2	321.8	336.0
107.5°	125.9	218.1	294.5	345.6	358.1
110°	146.5	233.9	312.0	362.4	377.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	165.3	247.1	324.2	377.9	391.1
115°	183.0	258.4	336.5	391.2	404.9
117.5°	198.8	268.7	350.2	400.5	415.2
120°	214.1	278.1	364.4	409.5	422.4
122.5°	229.4	289.1	378.2	419.7	430.0
125°	245.3	301.3	390.7	430.8	439.2
127.5°	260.9	313.3	399.7	441.2	448.8
130°	276.2	323.5	406.1	450.7	458.0
132.5°	291.0	332.4	411.6	458.8	466.8
135°	305.6	341.4	416.2	463.4	473.4
137.5°	318.8	350.1	419.5	464.4	476.3
140°	330.2	358.3	422.5	464.5	475.8
142.5°	340.3	365.6	425.2	464.0	474.5
145°	349.6	372.4	426.8	462.1	472.5
147.5°	358.0	379.5	426.0	459.5	469.2
150°	365.9	386.7	424.9	457.0	465.1
152.5°	373.1	394.1	423.2	453.1	461.5
155°	379.6	400.4	421.8	446.5	455.3
157.5°	385.0	404.0	420.3	440.5	447.0
160°	389.5	405.3	419.9	435.3	439.4
162.5°	393.4	406.2	420.4	430.7	432.5
165°	396.7	406.9	423.0	427.5	427.0
167.5°	399.7	407.2	423.1	427.5	424.4
170°	402.8	407.8	420.3	427.1	423.5
172.5°	405.9	408.4	417.6	421.4	419.4
175°	408.5	409.0	414.8	416.1	413.2
177.5°	410.3	409.7	412.4	411.7	409.0
180°	410.0	410.0	410.0	410.0	410.0

(END OF REPORT)