

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: P30659

Luminaire Tested: **Z3-WB-2T8-1C-UNV-22**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P30659
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: Z3-WB-2T8-1C-UNV-22
Description: CORELITE 2x2 SHALLOW RECESSED FIXTURE WITH A WHITE UPPER REFLECTOR AND A CLEAR FLAT PRISMATIC LENS INCLUDING A WHITE BAFFLE WITH PRISMS RUNNING HORIZONTAL IN THE CENTER OF LENS OVER LAMP MOUNTING & TWO MICRO ACRYLIC LENS OVER CURVED REFLECTORS
Light Source: (2) PHILIPS DOUBLE ENDED BI-PIN T8 FLUORESCENT LAMPS 4100K PHILIPS F17T8/TL841 17 W
Ballast/Driver: GE ELECTRONIC BALLAST GE232-MVPS-N

Summary

Lumens per Lamp: 1300 (2 lamps)
Luminaire Lumens: 1960.8 lumens
Efficiency: 75.4%
Efficacy: 70.3 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.53 / 1.49
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

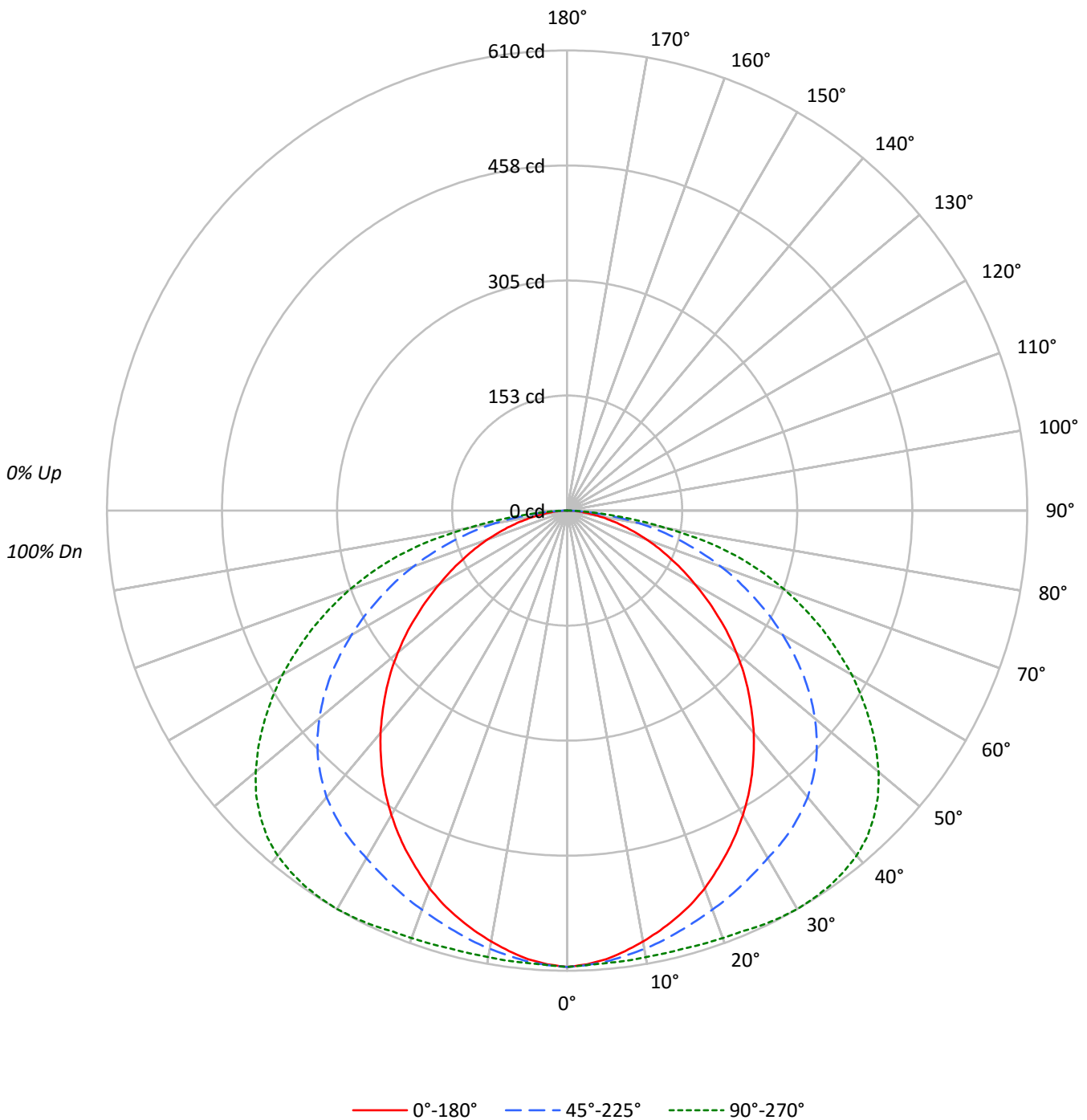
Input Watts (W): 27.9
Input Voltage (V): 120.06
Input Current (A_{in}): 0.2336
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	50	30	10	0													
RCR																																					
0	90	90	90	90	88	88	88	88	84	84	84	80	80	80	77	77	77	75						75													
1	82	78	74	71	79	76	73	70	73	70	68	70	68	66	67	65	64	62						62													
2	74	67	62	57	72	66	61	57	63	59	55	61	57	54	58	55	53	51						51													
3	67	59	52	47	65	57	51	47	55	50	46	53	49	45	51	47	44	42						42													
4	61	52	45	39	59	51	44	39	49	43	39	47	42	38	45	41	37	36						36													
5	56	46	39	34	54	45	38	33	43	38	33	42	37	33	40	36	32	31						31													
6	52	41	34	29	50	40	34	29	39	33	29	38	32	28	36	32	28	27						27													
7	48	37	30	26	46	37	30	25	35	29	25	34	29	25	33	28	25	23						23													
8	44	34	27	23	43	33	27	23	32	27	22	31	26	22	30	26	22	21						21													
9	41	31	25	20	40	30	24	20	30	24	20	29	24	20	28	23	20	18						18													
10	39	28	22	18	38	28	22	18	27	22	18	27	22	18	26	21	18	17						17													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1628	1628	1628
5°	1613	1621	1626
10°	1585	1612	1642
15°	1557	1607	1674
20°	1526	1612	1727
25°	1488	1627	1802
30°	1448	1653	1895
35°	1403	1698	1994
40°	1352	1742	2097
45°	1294	1777	2188
50°	1227	1796	2256
55°	1145	1797	2304
60°	1055	1776	2347
65°	968	1745	2381
70°	881	1707	2415
75°	780	1632	2412
80°	666	1503	2046
85°	525	1112	1359



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	56.9	2.9	2.2
10°-20°	163.6	8.3	6.3
20°-30°	254.3	13.0	9.8
30°-40°	323.0	16.5	12.4
40°-50°	355.3	18.1	13.7
50°-60°	335.7	17.1	12.9
60°-70°	266.6	13.6	10.3
70°-80°	163.6	8.3	6.3
80°-90°	41.7	2.1	1.6
90°-100°	0.1	0.0	0.0
100°-110°	0.0	0.0	0.0
110°-120°	0.0	0.0	0.0
120°-130°	0.0	0.0	0.0
130°-140°	0.0	0.0	0.0
140°-150°	0.0	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-30°	474.8	24.2	18.3
0°-40°	797.8	40.7	30.7
0°-60°	1488.8	75.9	57.3
0°-90°	1960.7	100.0	75.4
90°-120°	0.1	0.0	0.0
90°-150°	0.1	0.0	0.0
90°-180°	0.0	0.0	0.0
0°-180°	1960.8	100.0	75.4

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	605	605	605	605	605	
5°	597	597	600	601	602	56
15°	559	564	577	593	601	158
25°	501	514	548	586	607	231
35°	427	451	517	578	607	267
45°	340	378	467	542	575	262
55°	244	293	383	461	491	218
65°	152	194	274	347	374	151
75°	75	101	157	213	232	80
85°	17	23	36	45	44	19
90°	0	0	1	1	1	1
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	605	605	605	605	605
2.5°	602	602	603	603	603
5°	597	597	600	601	602
7.5°	589	591	595	600	602
10°	580	583	590	597	601
12.5°	570	574	584	595	601
15°	559	564	577	593	601
17.5°	547	553	570	591	602
20°	533	541	563	589	603
22.5°	517	528	556	588	604
25°	501	514	548	586	607
27.5°	484	499	540	586	609
30°	466	484	532	585	610
32.5°	447	468	525	583	609
35°	427	451	517	578	607
37.5°	406	434	507	573	603
40°	385	416	496	565	597
42.5°	362	398	482	555	588
45°	340	378	467	542	575
47.5°	317	359	449	526	559
50°	293	338	429	507	539
52.5°	269	316	407	485	516
55°	244	293	383	461	491
57.5°	220	269	357	435	464
60°	196	244	330	407	436
62.5°	174	219	303	377	405
65°	152	194	274	347	374
67.5°	132	169	246	315	341
70°	112	145	217	282	307
72.5°	93	123	187	249	271
75°	75	101	157	213	232
77.5°	58	80	128	173	187
80°	43	60	97	127	132
82.5°	29	41	63	85	86
85°	17	23	36	45	44
87.5°	7	9	12	14	15
90°	0	0	1	1	1
92.5°	0	0	0	0	0
95°	0	0	0	0	0
97.5°	0	0	0	0	0
100°	0	0	0	0	0
102.5°	0	0	0	0	0
105°	0	0	0	0	0
107.5°	0	0	0	0	0
110°	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0	0	0	0	0
115°	0	0	0	0	0
117.5°	0	0	0	0	0
120°	0	0	0	0	0
122.5°	0	0	0	0	0
125°	0	0	0	0	0
127.5°	0	0	0	0	0
130°	0	0	0	0	0
132.5°	0	0	0	0	0
135°	0	0	0	0	0
137.5°	0	0	0	0	0
140°	0	0	0	0	0
142.5°	0	0	0	0	0
145°	0	0	0	0	0
147.5°	0	0	0	0	0
150°	0	0	0	0	0
152.5°	0	0	0	0	0
155°	0	0	0	0	0
157.5°	0	0	0	0	0
160°	0	0	0	0	0
162.5°	0	0	0	0	0
165°	0	0	0	0	0
167.5°	0	0	0	0	0
170°	0	0	0	0	0
172.5°	0	0	0	0	0
175°	0	0	0	0	0
177.5°	0	0	0	0	0
180°	0	0	0	0	0

(END OF REPORT)