

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: P30662

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P30662
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: Z3-WG-2T8-1C-UNV-22
Description: CORELITE 2x2 SHALLOW RECESSED FIXTURE WITH A WHITE UPPER REFLECTOR AND A CLEAR FLAT LENS WITH A RECTANGLE PERF INLAY 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: 1993.8 lumens
Efficiency: 76.7%
Efficacy: 71.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.55 / 1.57
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

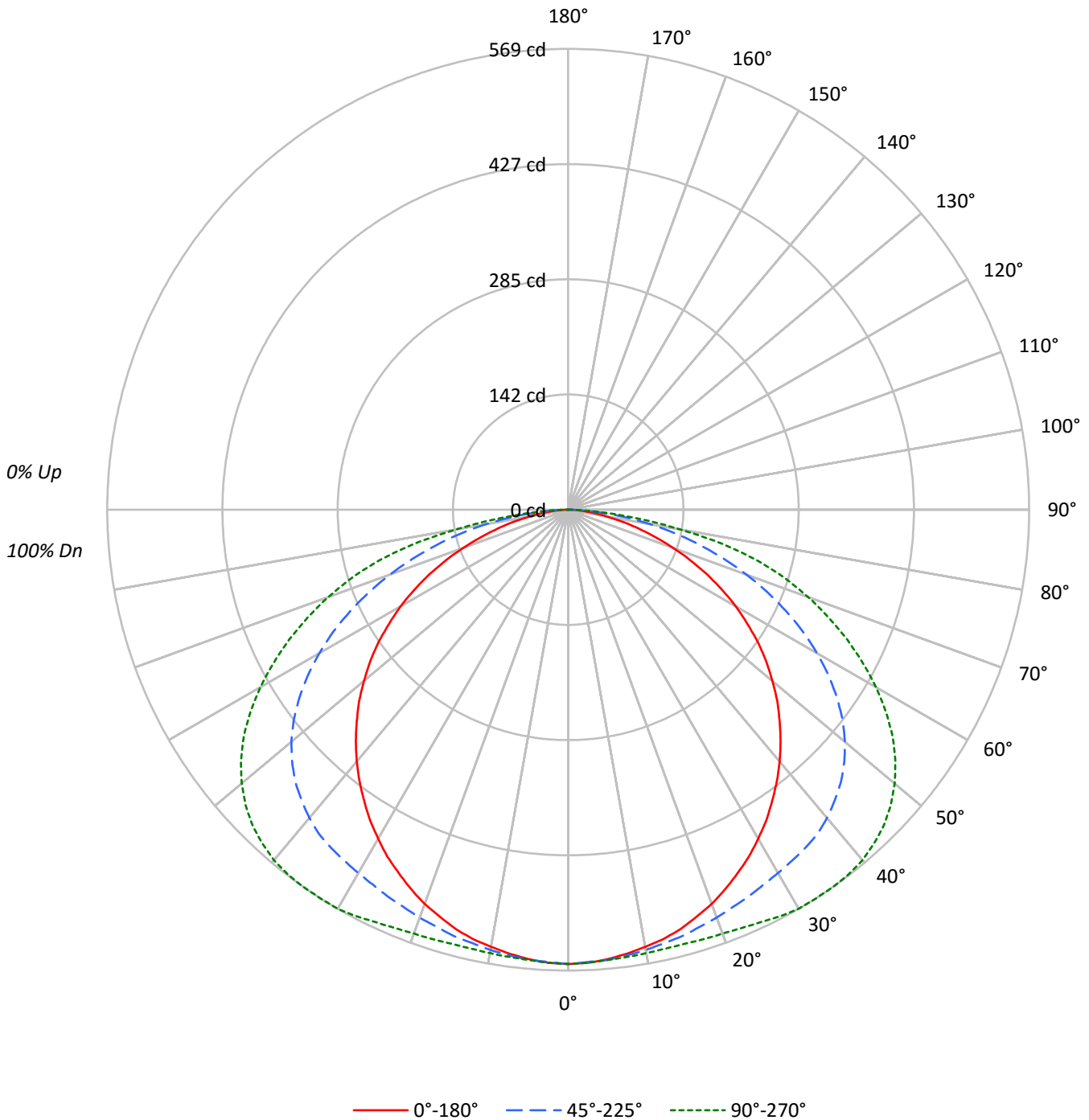
Input Watts (W): 27.9
Input Voltage (V): 120.06
Input Current (Ain): 0.2374
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	91	91	91	91	89	89	89	89	85	85	85	82	82	82	78	78	78	77				77
1	83	79	75	72	81	77	74	71	74	71	69	71	68	66	68	66	64	63				63
2	75	68	62	57	73	66	61	57	64	59	55	61	57	54	59	56	53	51				51
3	68	59	52	47	66	58	51	46	55	50	46	53	49	45	51	47	44	42				42
4	61	52	45	39	60	51	44	39	49	43	38	47	42	38	45	41	37	35				35
5	56	46	39	33	55	45	38	33	43	37	33	42	36	32	40	36	32	30				30
6	52	41	34	29	50	40	33	28	39	33	28	38	32	28	36	31	28	26				26
7	48	37	30	25	46	36	30	25	35	29	25	34	29	25	33	28	24	23				23
8	44	34	27	22	43	33	27	22	32	26	22	31	26	22	30	25	22	20				20
9	41	31	24	20	40	30	24	20	29	24	20	28	23	19	28	23	19	18				18
10	39	28	22	18	38	28	22	18	27	21	18	26	21	18	26	21	17	16				16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1510	1510	1510
5°	1505	1507	1507
10°	1497	1508	1519
15°	1493	1518	1546
20°	1483	1535	1595
25°	1470	1565	1669
30°	1457	1610	1768
35°	1442	1675	1869
40°	1426	1746	1985
45°	1404	1811	2097
50°	1377	1867	2202
55°	1342	1900	2294
60°	1286	1911	2363
65°	1203	1891	2420
70°	1086	1841	2478
75°	936	1747	2506
80°	744	1596	2170
85°	556	1235	1513



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	53.0	2.7	2.0
10°-20°	154.2	7.7	5.9
20°-30°	244.0	12.2	9.4
30°-40°	317.5	15.9	12.2
40°-50°	360.6	18.1	13.9
50°-60°	354.2	17.8	13.6
60°-70°	288.0	14.4	11.1
70°-80°	176.2	8.8	6.8
80°-90°	45.8	2.3	1.8
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°	451.2	22.6	17.4
0°-40°	768.7	38.6	29.6
0°-60°	1483.5	74.4	57.1
0°-90°	1993.6	100.0	76.7
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°	1993.8	100.0	76.7

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	561	561	561	561	561	
5°	557	557	558	558	558	53
15°	536	538	545	552	555	151
25°	495	503	527	552	562	228
35°	439	458	510	555	569	275
45°	369	403	476	532	551	285
55°	286	330	405	467	489	255
65°	189	228	297	357	380	187
75°	90	118	168	221	241	96
85°	18	26	40	50	49	21
90°	0	1	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°	561	561	561	561	561
2.5°	560	559	559	559	560
5°	557	557	558	558	558
7.5°	553	553	555	556	557
10°	548	549	552	555	556
12.5°	543	544	548	553	555
15°	536	538	545	552	555
17.5°	527	531	540	551	556
20°	518	522	536	551	557
22.5°	507	513	531	551	559
25°	495	503	527	552	562
27.5°	483	493	522	554	566
30°	469	482	518	556	569
32.5°	455	470	514	556	569
35°	439	458	510	555	569
37.5°	423	445	505	552	568
40°	406	432	497	548	565
42.5°	388	418	487	541	559
45°	369	403	476	532	551
47.5°	350	387	462	521	540
50°	329	370	446	506	526
52.5°	308	351	427	488	509
55°	286	330	405	467	489
57.5°	262	307	381	444	465
60°	239	282	355	417	439
62.5°	214	256	327	388	410
65°	189	228	297	357	380
67.5°	163	200	266	325	348
70°	138	172	234	292	315
72.5°	113	144	201	257	280
75°	90	118	168	221	241
77.5°	68	92	136	181	195
80°	48	68	103	133	140
82.5°	32	46	69	89	92
85°	18	26	40	50	49
87.5°	8	11	16	18	18
90°	0	1	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)