

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: P30658

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P30658
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: Z3-WL-2T8-1C-UNV-22
Description: CORELITE 2x2 SHALLOW RECESSED FIXTURE WITH A WHITE UPPER REFLECTOR AND A FROST FLAT PRISMATIC LENS 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

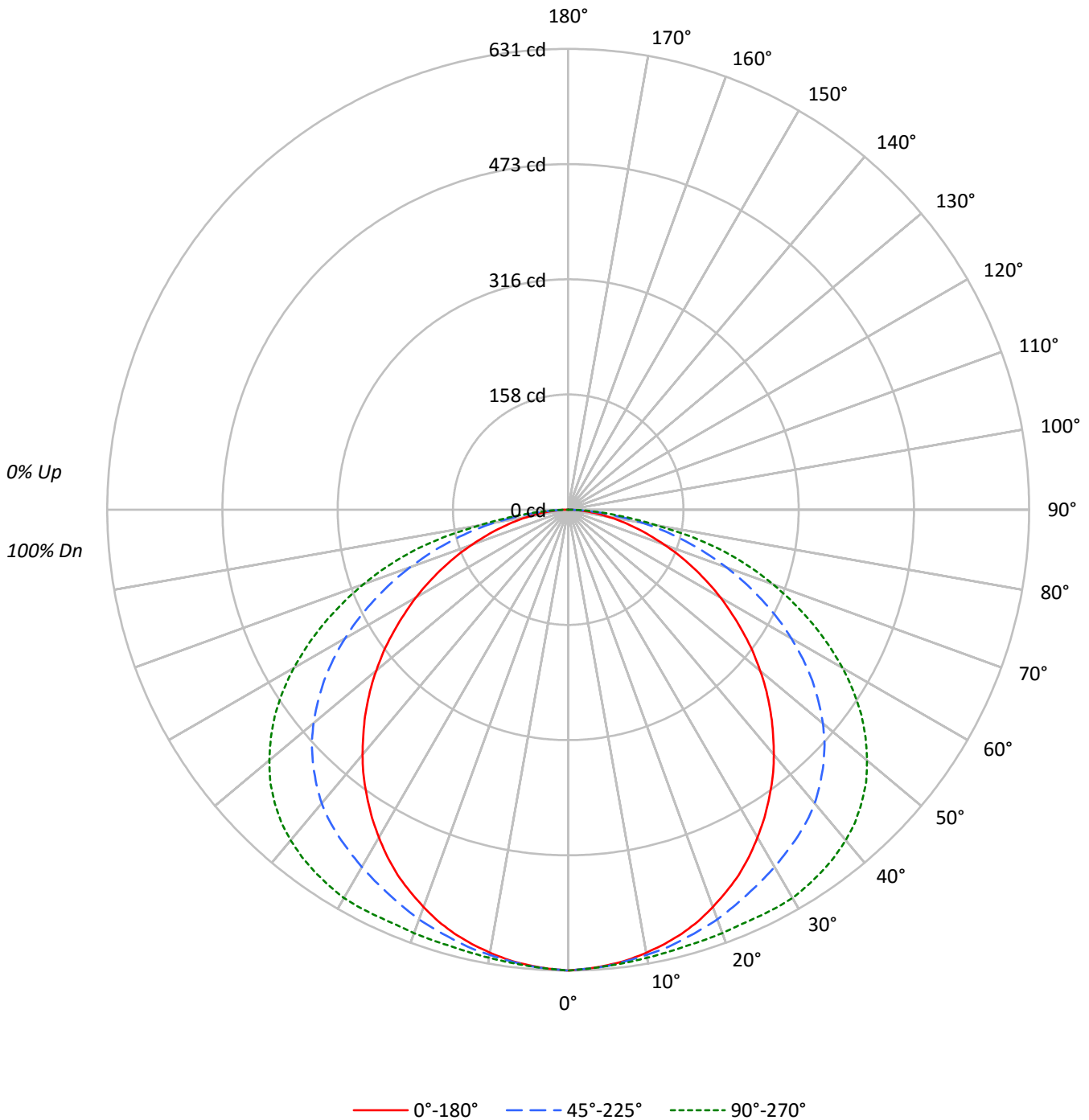
Lumens per Lamp: 1300 (2 lamps)
Luminaire Lumens: 2073.6 lumens
Efficiency: 79.8%
Efficacy: 74.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.47 / 1.5
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 27.7
Input Voltage (V): 120.06
Input Current (A_{in}): 0.2314
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	95	95	95	95	93	93	93	93	89	89	89	85	85	85	81	81	81	80
1	86	82	79	75	84	80	77	74	77	74	72	74	72	70	71	69	67	66
2	78	71	65	61	76	70	64	60	67	62	58	64	60	57	62	58	56	54
3	71	62	55	50	69	61	54	49	58	53	48	56	51	47	54	50	47	45
4	65	55	47	42	63	53	47	41	51	45	41	50	44	40	48	43	40	38
5	59	48	41	36	57	48	41	35	46	40	35	44	39	34	43	38	34	32
6	54	43	36	31	53	43	36	31	41	35	30	40	34	30	39	34	30	28
7	50	39	32	27	49	39	32	27	37	31	27	36	31	26	35	30	26	25
8	47	36	29	24	46	35	28	24	34	28	24	33	28	23	32	27	23	22
9	44	33	26	21	43	32	26	21	31	25	21	30	25	21	30	25	21	19
10	41	30	24	19	40	30	23	19	29	23	19	28	23	19	27	22	19	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1698	1698	1698
5°	1691	1694	1694
10°	1683	1691	1702
15°	1674	1697	1724
20°	1658	1710	1767
25°	1639	1725	1826
30°	1610	1756	1908
35°	1577	1797	1987
40°	1539	1844	2076
45°	1492	1880	2162
50°	1436	1905	2236
55°	1370	1914	2299
60°	1297	1900	2336
65°	1210	1866	2350
70°	1102	1810	2345
75°	988	1726	2298
80°	868	1581	1891
85°	741	1235	1420



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	59.6	2.9	2.3
10°-20°	172.3	8.3	6.6
20°-30°	268.9	13.0	10.3
30°-40°	341.0	16.4	13.1
40°-50°	375.0	18.1	14.4
50°-60°	357.2	17.2	13.7
60°-70°	283.9	13.7	10.9
70°-80°	171.0	8.2	6.6
80°-90°	44.7	2.2	1.7
90°-100°	0.0	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°	500.9	24.2	19.3
0°-40°	841.9	40.6	32.4
0°-60°	1574.0	75.9	60.5
0°-90°	2073.6	100.0	79.8
90°-120°	0.0	0.0	0.0
90°-150°	0.0	0.0	0.0
90°-180°	0.0	0.0	0.0
0°-180°	2073.6	100.0	79.8

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	631	631	631	631	631	
5°	626	627	627	627	627	59
15°	601	603	609	616	619	169
25°	552	559	581	605	615	254
35°	480	498	547	590	605	300
45°	392	423	494	549	568	302
55°	292	335	408	469	490	261
65°	190	227	293	350	369	188
75°	95	121	166	207	221	101
85°	24	30	40	45	46	26
90°	0	0	0	0	0	2
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°	631	631	631	631	631
2.5°	629	629	629	629	629
5°	626	627	627	627	627
7.5°	622	623	623	624	625
10°	616	617	619	622	623
12.5°	609	611	615	619	621
15°	601	603	609	616	619
17.5°	591	594	603	613	618
20°	579	584	597	610	617
22.5°	566	573	589	607	615
25°	552	559	581	605	615
27.5°	536	546	573	603	615
30°	518	531	565	601	614
32.5°	500	515	556	597	610
35°	480	498	547	590	605
37.5°	460	481	537	583	599
40°	438	462	525	573	591
42.5°	415	443	510	562	581
45°	392	423	494	549	568
47.5°	368	403	476	533	553
50°	343	381	455	514	534
52.5°	318	358	432	493	513
55°	292	335	408	469	490
57.5°	266	309	381	442	463
60°	241	282	353	413	434
62.5°	215	255	324	382	402
65°	190	227	293	350	369
67.5°	165	199	262	315	334
70°	140	172	230	280	298
72.5°	117	146	198	244	261
75°	95	121	166	207	221
77.5°	75	97	135	166	175
80°	56	73	102	118	122
82.5°	39	51	67	79	82
85°	24	30	40	45	46
87.5°	11	13	15	17	18
90°	0	0	0	0	0
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)