

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: ITL67614

Luminaire Tested: **Z2-WL-2N5-1C-UNV-22-T1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: ITL67614
Test Lab: INDEPENDENT TESTING LABORATORIES, INC.
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: Z2-WL-2N5-1C-UNV-22-T1
Description: FORMED WHITE PAINTED METAL REFLECTOR, FORMED WHITE PAINTED METAL BALLAST COVER, FABRICATED WHITE PAINTED METAL END PLATES, EXTRUDED FROSTED LINEAR PRISMATIC PLASTIC DIFFUSER WITH MICRO-LINEAR SIDES, DIFFUSER BOTTOM PRISMS UP AND PARALLEL WITH LAMPS, SIDE PRISMS OUT AND PARALLEL WITH LAMPS, DIFFUSER FROSTED BOTH SIDES.
Light Source: TWO 14-WATT T-5 PHILIPS F14T5/835 LINEAR FLUORESCENTS.
Ballast/Driver: UNIVERSAL B228PUNV-C

Summary

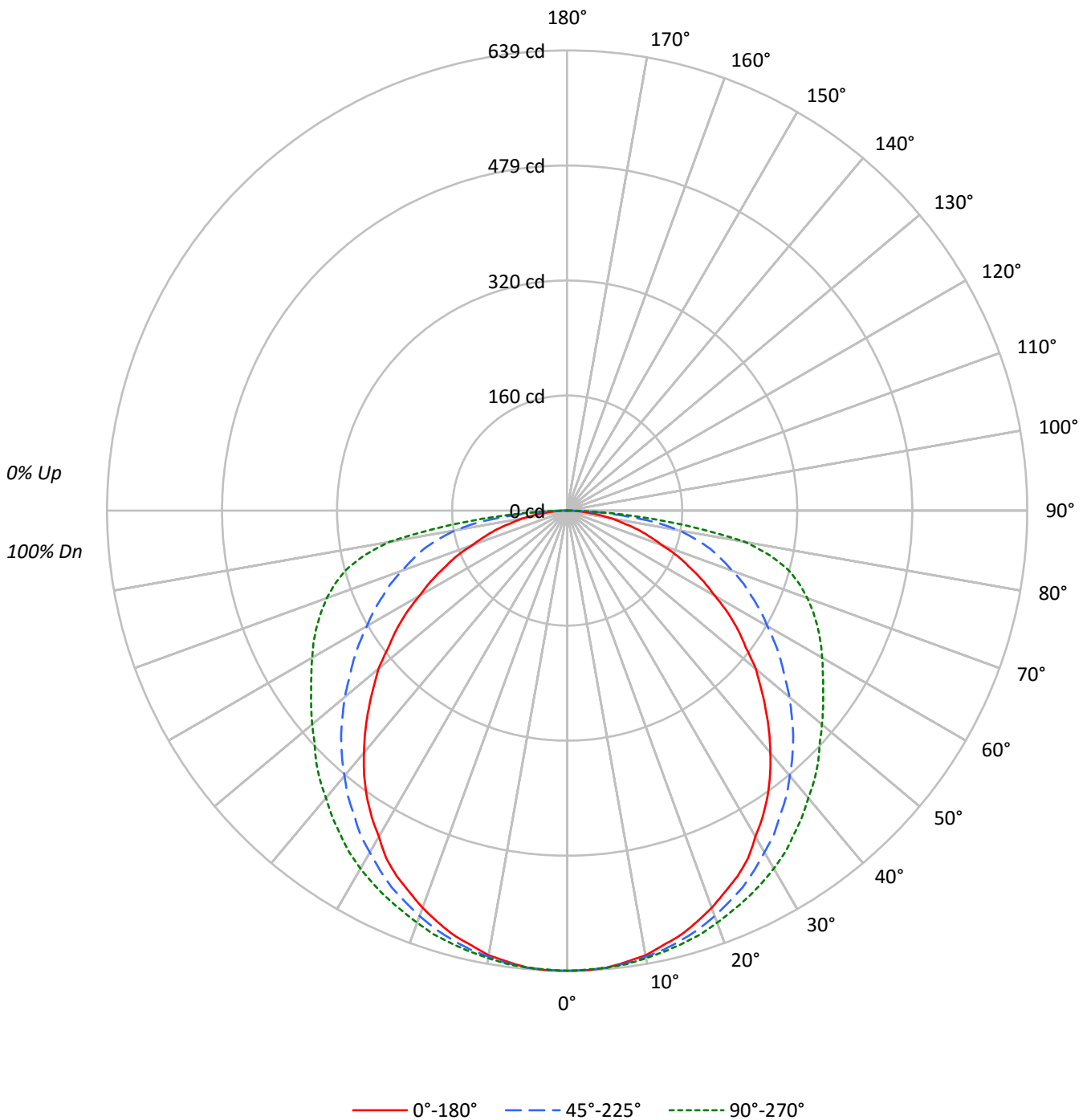
Lumens per Lamp: 1200 (2 lamps)
Luminaire Lumens: 2073.0 lumens
Efficiency: 86.4%
Efficacy: 67.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.34 / 1.41
Luminous Opening: Rectangular (W 1.93' x L: 1.9' x H: 0')
CIE Type: Direct

Input Watts (W): 30.7
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	103	103	103	103	100	100	100	100	96	96	96	92	92	92	88	88	88	86
1	93	88	84	80	90	86	82	78	82	79	76	79	76	74	75	73	71	69
2	83	76	69	63	81	74	68	63	71	66	61	68	64	60	65	62	58	56
3	76	66	58	52	73	64	57	51	62	56	50	59	54	50	57	52	49	47
4	69	58	50	44	67	57	49	43	54	48	43	52	47	42	50	45	41	39
5	63	51	43	37	61	50	43	37	49	42	37	47	41	36	45	40	36	34
6	58	46	38	32	57	45	38	32	44	37	32	42	36	32	41	35	31	29
7	54	42	34	28	52	41	34	28	40	33	28	38	32	28	37	32	28	26
8	50	38	30	25	49	38	30	25	36	30	25	35	29	25	34	29	25	23
9	47	35	28	23	46	34	27	23	33	27	22	32	27	22	32	26	22	21
10	44	32	25	21	43	32	25	20	31	25	20	30	24	20	29	24	20	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1872	1872	1872
5°	1874	1874	1874
10°	1866	1872	1878
15°	1851	1872	1887
20°	1830	1868	1899
25°	1811	1866	1917
30°	1770	1854	1942
35°	1735	1846	1964
40°	1679	1840	1993
45°	1616	1840	2043
50°	1559	1837	2106
55°	1482	1849	2217
60°	1389	1881	2397
65°	1310	1962	2662
70°	1199	2090	3041
75°	1143	2332	3600
80°	1046	2666	4236
85°	874	2522	3429



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	60.5	2.9	2.5
10°-20°	174.0	8.4	7.3
20°-30°	265.6	12.8	11.1
30°-40°	323.6	15.6	13.5
40°-50°	341.6	16.5	14.2
50°-60°	324.4	15.6	13.5
60°-70°	283.3	13.7	11.8
70°-80°	218.6	10.5	9.1
80°-90°	81.4	3.9	3.4
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°	500.2	24.1	20.8
0°-40°	823.8	39.7	34.3
0°-60°	1489.8	71.9	62.1
0°-90°	2073.0	100.0	86.4
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°	2073.0	100.0	86.4

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	639	639	639	639	639	
5°	637	637	637	637	637	60
15°	610	612	617	621	622	172
25°	560	564	577	587	593	257
35°	485	495	516	542	549	303
45°	390	406	444	480	493	301
55°	290	309	362	414	434	259
65°	189	220	283	356	384	188
75°	101	134	206	287	318	106
85°	26	46	75	100	102	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	639	639	639	639	639
2.5°	639	640	639	638	638
5°	637	637	637	637	637
7.5°	632	633	634	634	635
10°	627	627	629	631	631
12.5°	618	620	624	626	627
15°	610	612	617	621	622
17.5°	599	602	609	615	617
20°	587	591	599	607	609
22.5°	573	580	588	598	601
25°	560	564	577	587	593
27.5°	544	549	563	577	584
30°	523	531	548	566	574
32.5°	505	513	534	555	563
35°	485	495	516	542	549
37.5°	463	473	500	527	536
40°	439	451	481	512	521
42.5°	415	429	463	494	508
45°	390	406	444	480	493
47.5°	365	382	423	463	476
50°	342	359	403	446	462
52.5°	313	335	381	430	448
55°	290	309	362	414	434
57.5°	265	288	342	400	421
60°	237	263	321	384	409
62.5°	214	240	303	370	397
65°	189	220	283	356	384
67.5°	167	195	265	340	370
70°	140	175	244	326	355
72.5°	120	153	225	307	338
75°	101	134	206	287	318
77.5°	79	115	182	264	289
80°	62	93	158	230	251
82.5°	43	71	122	174	177
85°	26	46	75	100	102
87.5°	12	20	31	39	39
90°	0	0	0	0	0

(END OF REPORT)