

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P390391

Luminaire Tested: **22CZ2-44VHE-RDP-UNV-L950-CD1-SWPD1-U**

Issue Date: 2/28/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

Test Information

Test Method: LM-79-08
Report Number: P390391
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-24)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 2/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-44VHE-RDP-UNV-L950-CD1-SWPD1-U
Description: 2x2 CRUZE LED TROFFER WITH 5000K, 90 LEDS, AND RDP LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2782.4 lumens
Efficiency: N/A
Efficacy: 85.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

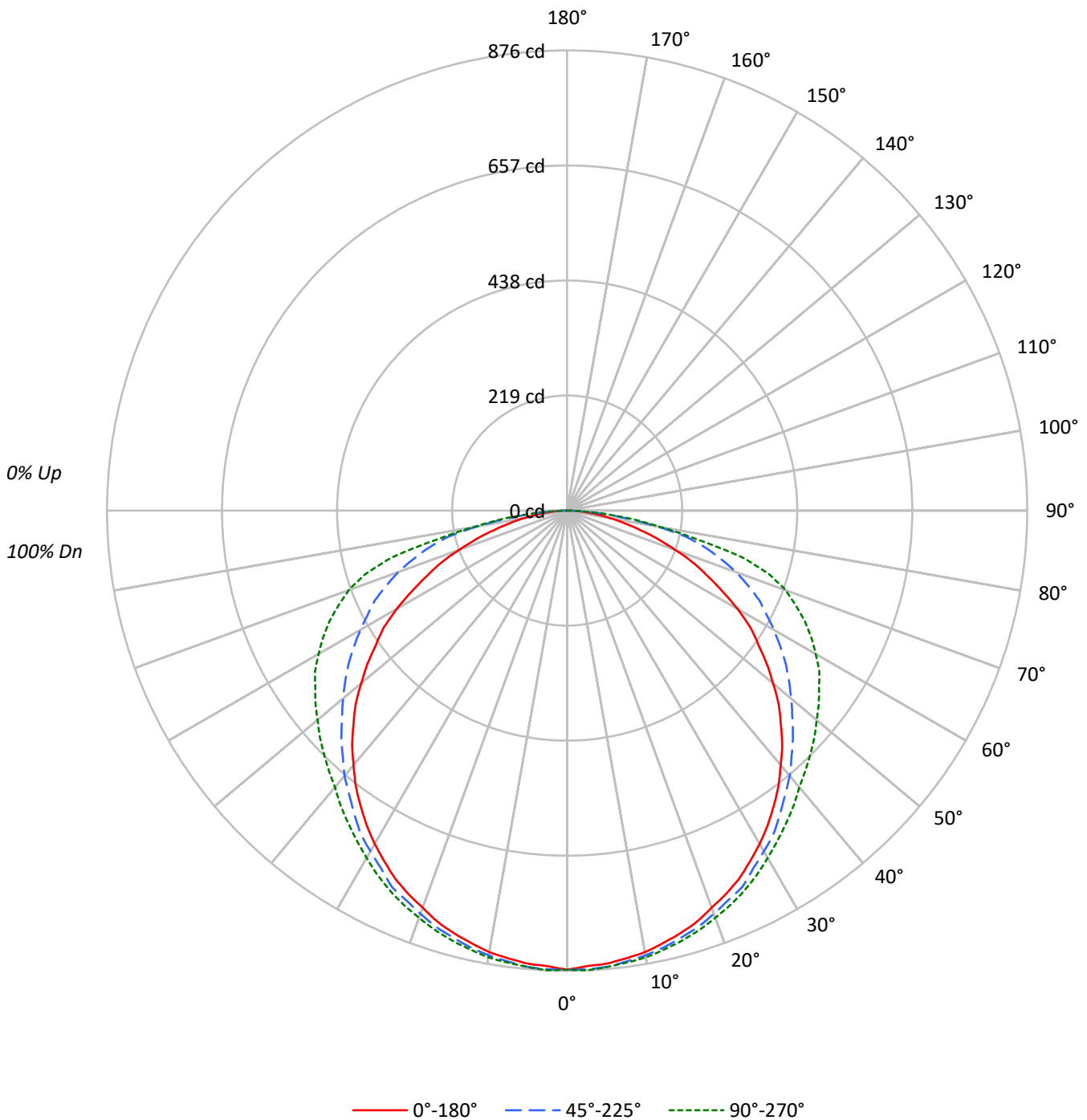
Input Watts (W): 32.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	98	94	105	100	96	92	96	92	89	92	89	86	88	86	84	82
2	97	88	81	75	95	86	80	74	83	77	72	80	75	71	76	72	69	67
3	88	77	68	61	86	75	67	61	72	65	60	70	64	59	67	62	58	55
4	80	68	59	51	78	66	58	51	64	56	50	61	55	50	59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33	31
8	59	45	36	30	57	44	35	30	43	35	29	41	34	29	40	34	29	27
9	55	41	32	27	53	40	32	27	39	32	26	38	31	26	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2352	2352	2352
5°	2339	2355	2355
10°	2332	2349	2360
15°	2321	2344	2361
20°	2304	2339	2362
25°	2297	2346	2370
30°	2277	2328	2372
35°	2253	2320	2387
40°	2222	2315	2416
45°	2189	2313	2493
50°	2142	2331	2596
55°	2084	2381	2746
60°	2016	2446	2941
65°	1876	2567	3180
70°	1723	2689	3478
75°	1511	2830	3596
80°	1300	2696	2824
85°	1136	1961	2149



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.7	3.0
10°-20°	237.4	8.5
20°-30°	362.2	13.0
30°-40°	442.2	15.9
40°-50°	472.8	17.0
50°-60°	456.4	16.4
60°-70°	392.9	14.1
70°-80°	265.8	9.6
80°-90°	70.1	2.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	682.2	24.5
0°-40°	1124.4	40.4
0°-60°	2053.6	73.8
0°-90°	2782.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2782.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	874	874	874	874	874	
5°	866	868	872	872	872	82
15°	833	835	841	845	847	235
25°	774	778	790	794	798	356
35°	686	692	706	720	727	429
45°	575	585	608	639	655	444
55°	444	458	508	559	585	398
65°	295	323	403	467	499	293
75°	145	192	272	328	346	156
85°	37	51	64	66	70	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	874.0	874.0	874.0	874.0	874.0
2.5°	867.9	869.9	874.0	874.0	876.0
5°	865.8	867.9	872.0	872.0	872.0
7.5°	859.7	861.7	865.8	867.9	867.9
10°	853.5	855.6	859.7	861.7	863.8
12.5°	843.3	845.3	851.5	855.6	855.6
15°	833.1	835.1	841.3	845.3	847.4
17.5°	820.8	824.9	831.0	835.1	837.2
20°	804.4	808.5	816.7	822.8	824.9
22.5°	790.1	794.2	802.4	808.5	812.6
25°	773.7	777.8	790.1	794.2	798.3
27.5°	753.2	757.3	767.6	775.8	781.9
30°	732.8	736.9	749.1	759.4	763.5
32.5°	710.3	716.4	730.7	738.9	745.0
35°	685.7	691.8	706.2	720.5	726.6
37.5°	661.1	667.3	681.6	700.0	708.2
40°	632.5	640.7	659.1	683.6	687.7
42.5°	605.9	616.1	632.5	661.1	671.4
45°	575.2	585.4	607.9	638.6	655.0
47.5°	546.5	556.7	581.3	618.1	638.6
50°	511.7	526.0	556.7	599.7	620.2
52.5°	479.0	491.2	532.2	579.3	603.8
55°	444.2	458.5	507.6	558.8	585.4
57.5°	413.5	425.7	481.0	538.3	569.0
60°	374.6	390.9	454.4	515.8	546.5
62.5°	333.6	358.2	427.8	491.2	524.0
65°	294.7	323.4	403.2	466.7	499.4
67.5°	259.9	290.7	372.5	440.1	470.8
70°	219.0	257.9	341.8	407.3	442.1
72.5°	182.2	225.2	307.0	372.5	403.2
75°	145.3	192.4	272.2	327.5	345.9
77.5°	112.6	157.6	233.3	249.7	251.8
80°	83.9	124.9	174.0	176.0	182.2
82.5°	57.3	88.0	112.6	122.8	124.9
85°	36.8	51.2	63.5	65.5	69.6
87.5°	16.4	18.4	22.5	20.5	20.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)