

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: P390392

Luminaire Tested: **22CZ2-44VHE-RDP-UNV-L950-CD1-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: P390392
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-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: 2817.4 lumens
Efficiency: N/A
Efficacy: 86.4 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

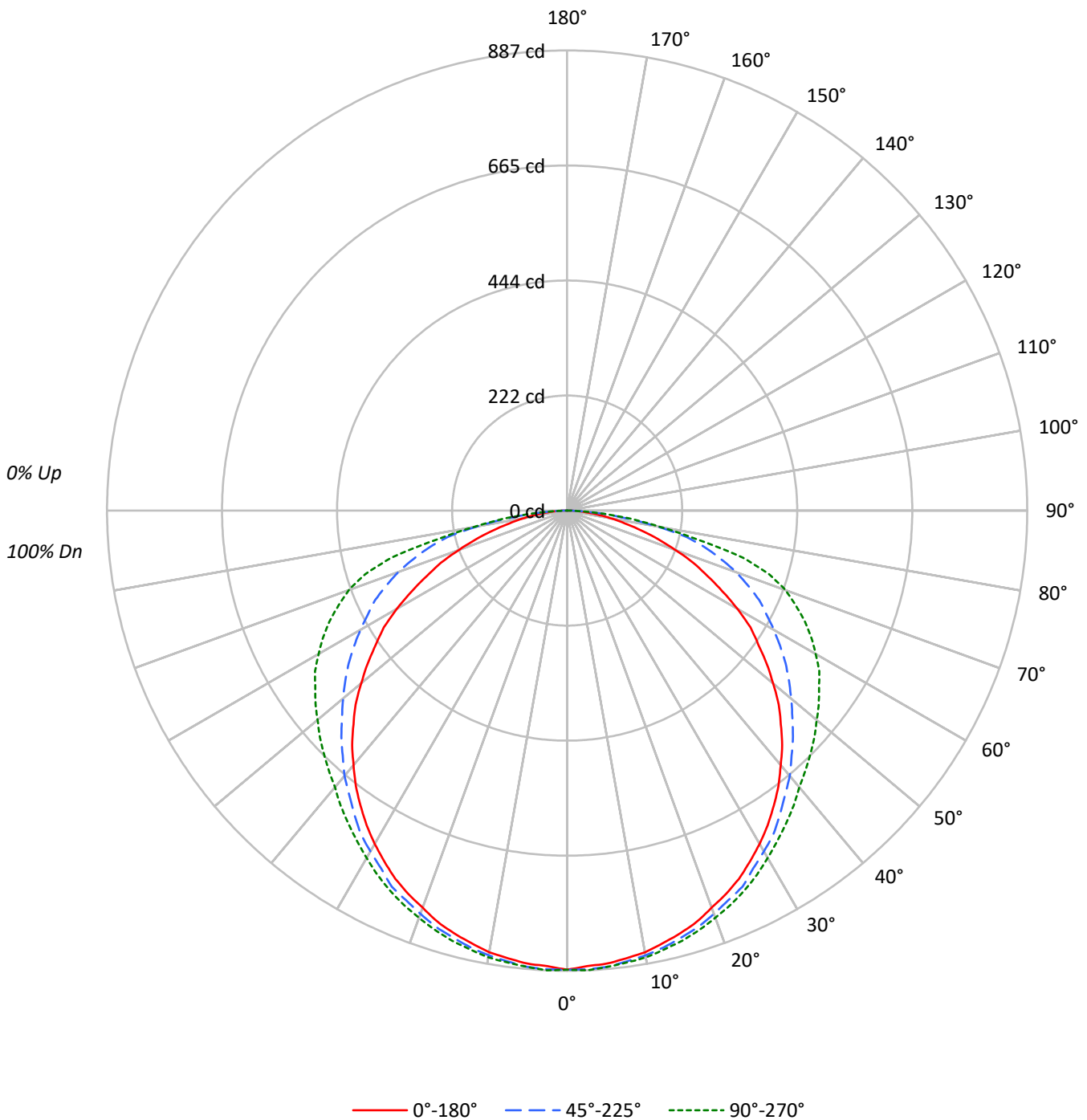
Input Watts (W): 32.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2382	2382	2382
5°	2368	2385	2385
10°	2362	2379	2390
15°	2350	2373	2391
20°	2332	2368	2392
25°	2326	2375	2400
30°	2306	2357	2402
35°	2281	2349	2417
40°	2250	2344	2446
45°	2216	2343	2524
50°	2169	2360	2629
55°	2110	2411	2781
60°	2041	2476	2978
65°	1901	2600	3220
70°	1745	2723	3522
75°	1530	2866	3642
80°	1317	2731	2859
85°	1152	1985	2177



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.7	3.0
10°-20°	240.4	8.5
20°-30°	366.7	13.0
30°-40°	447.8	15.9
40°-50°	478.8	17.0
50°-60°	462.1	16.4
60°-70°	397.8	14.1
70°-80°	269.2	9.6
80°-90°	71.0	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°	690.8	24.5
0°-40°	1138.6	40.4
0°-60°	2079.4	73.8
0°-90°	2817.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2817.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	885	885	885	885	885	
5°	877	879	883	883	883	83
15°	844	846	852	856	858	238
25°	783	788	800	804	808	361
35°	694	700	715	730	736	434
45°	582	593	616	647	663	450
55°	450	464	514	566	593	403
65°	298	328	408	472	506	297
75°	147	195	276	332	350	158
85°	37	52	64	66	70	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	885.0	885.0	885.0	885.0	885.0
2.5°	878.8	880.8	885.0	885.0	887.1
5°	876.7	878.8	882.9	882.9	882.9
7.5°	870.5	872.6	876.7	878.8	878.8
10°	864.3	866.3	870.5	872.6	874.6
12.5°	853.9	856.0	862.2	866.3	866.3
15°	843.5	845.6	851.8	856.0	858.1
17.5°	831.1	835.3	841.5	845.6	847.7
20°	814.5	818.7	827.0	833.2	835.3
22.5°	800.0	804.2	812.5	818.7	822.8
25°	783.4	787.6	800.0	804.2	808.3
27.5°	762.7	766.9	777.2	785.5	791.7
30°	742.0	746.1	758.6	768.9	773.1
32.5°	719.2	725.4	739.9	748.2	754.4
35°	694.3	700.5	715.0	729.6	735.8
37.5°	669.4	675.7	690.2	708.8	717.1
40°	640.4	648.7	667.4	692.2	696.4
42.5°	613.5	623.8	640.4	669.4	679.8
45°	582.4	592.8	615.6	646.6	663.2
47.5°	553.4	563.7	588.6	625.9	646.6
50°	518.1	532.7	563.7	607.3	628.0
52.5°	485.0	497.4	538.9	586.5	611.4
55°	449.8	464.3	514.0	565.8	592.8
57.5°	418.7	431.1	487.1	545.1	576.2
60°	379.3	395.9	460.1	522.3	553.4
62.5°	337.8	362.7	433.2	497.4	530.6
65°	298.5	327.5	408.3	472.5	505.7
67.5°	263.2	294.3	377.2	445.6	476.7
70°	221.8	261.1	346.1	412.4	447.7
72.5°	184.5	228.0	310.9	377.2	408.3
75°	147.2	194.8	275.7	331.6	350.3
77.5°	114.0	159.6	236.3	252.9	254.9
80°	85.0	126.4	176.2	178.2	184.5
82.5°	58.0	89.1	114.0	124.4	126.4
85°	37.3	51.8	64.3	66.3	70.5
87.5°	16.6	18.7	22.8	20.7	20.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)