

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: P390488

Luminaire Tested: **22CZ2-55VHE-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: P390488
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: 22CZ2-55VHE-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: 3372.3 lumens
Efficiency: N/A
Efficacy: 85.6 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

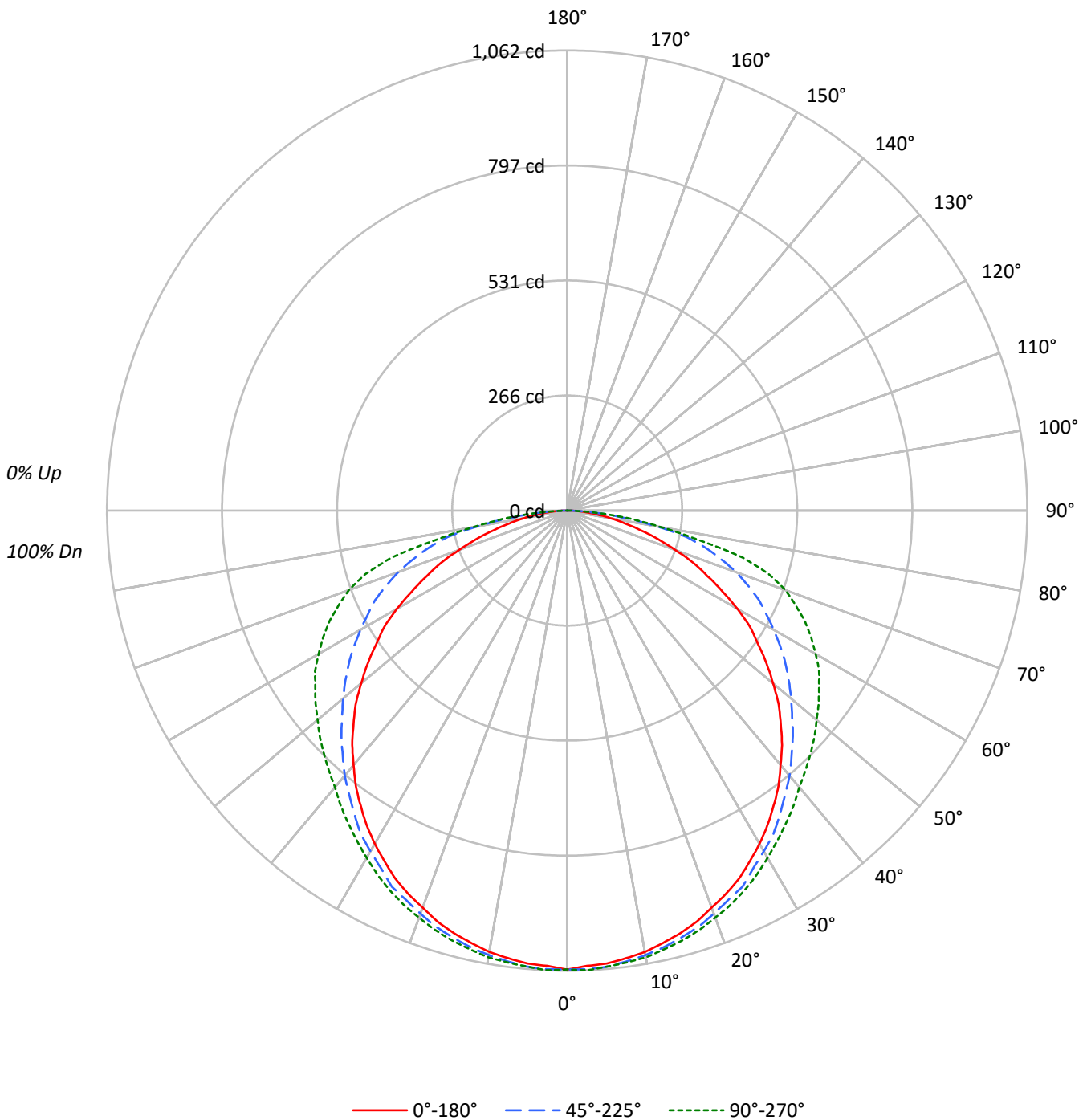
Input Watts (W): 39.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2851	2851	2851
5°	2835	2855	2855
10°	2827	2847	2861
15°	2813	2841	2861
20°	2792	2834	2863
25°	2784	2843	2873
30°	2760	2821	2875
35°	2730	2812	2893
40°	2693	2806	2928
45°	2653	2804	3021
50°	2596	2825	3147
55°	2525	2886	3329
60°	2443	2964	3565
65°	2274	3112	3854
70°	2088	3260	4216
75°	1831	3430	4360
80°	1576	3268	3422
85°	1380	2374	2603



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.2	3.0
10°-20°	287.7	8.5
20°-30°	438.9	13.0
30°-40°	536.0	15.9
40°-50°	573.1	17.0
50°-60°	553.1	16.4
60°-70°	476.2	14.1
70°-80°	322.1	9.6
80°-90°	85.0	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°	826.8	24.5
0°-40°	1362.8	40.4
0°-60°	2489.0	73.8
0°-90°	3372.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3372.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1059	1059	1059	1059	1059	
5°	1049	1052	1057	1057	1057	100
15°	1010	1012	1020	1025	1027	285
25°	938	943	958	962	968	432
35°	831	838	856	873	881	520
45°	697	710	737	774	794	538
55°	538	556	615	677	710	482
65°	357	392	489	566	605	355
75°	176	233	330	397	419	189
85°	45	62	77	79	84	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1059.3	1059.3	1059.3	1059.3	1059.3
2.5°	1051.9	1054.3	1059.3	1059.3	1061.8
5°	1049.4	1051.9	1056.8	1056.8	1056.8
7.5°	1041.9	1044.4	1049.4	1051.9	1051.9
10°	1034.5	1037.0	1041.9	1044.4	1046.9
12.5°	1022.1	1024.6	1032.0	1037.0	1037.0
15°	1009.7	1012.2	1019.6	1024.6	1027.0
17.5°	994.8	999.8	1007.2	1012.2	1014.6
20°	975.0	979.9	989.8	997.3	999.8
22.5°	957.6	962.5	972.5	979.9	984.9
25°	937.7	942.7	957.6	962.5	967.5
27.5°	912.9	917.9	930.3	940.2	947.7
30°	888.1	893.1	908.0	920.4	925.3
32.5°	860.8	868.3	885.6	895.6	903.0
35°	831.1	838.5	855.9	873.2	880.7
37.5°	801.3	808.7	826.1	848.4	858.4
40°	766.6	776.5	798.8	828.6	833.5
42.5°	734.3	746.7	766.6	801.3	813.7
45°	697.1	709.5	736.8	774.0	793.9
47.5°	662.4	674.8	704.5	749.2	774.0
50°	620.2	637.6	674.8	726.9	751.7
52.5°	580.5	595.4	645.0	702.1	731.8
55°	538.3	555.7	615.2	677.3	709.5
57.5°	501.1	516.0	583.0	652.4	689.7
60°	454.0	473.8	550.7	625.2	662.4
62.5°	404.4	434.1	518.5	595.4	635.1
65°	357.2	392.0	488.7	565.6	605.3
67.5°	315.1	352.3	451.5	533.4	570.6
70°	265.4	312.6	414.3	493.7	535.9
72.5°	220.8	272.9	372.1	451.5	488.7
75°	176.1	233.2	329.9	396.9	419.3
77.5°	136.4	191.0	282.8	302.7	305.1
80°	101.7	151.3	210.9	213.3	220.8
82.5°	69.5	106.7	136.4	148.8	151.3
85°	44.7	62.0	76.9	79.4	84.3
87.5°	19.8	22.3	27.3	24.8	24.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)