

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: P390487

Luminaire Tested: **22CZ2-55VHE-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: P390487
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-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: 3330.3 lumens
Efficiency: N/A
Efficacy: 84.5 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

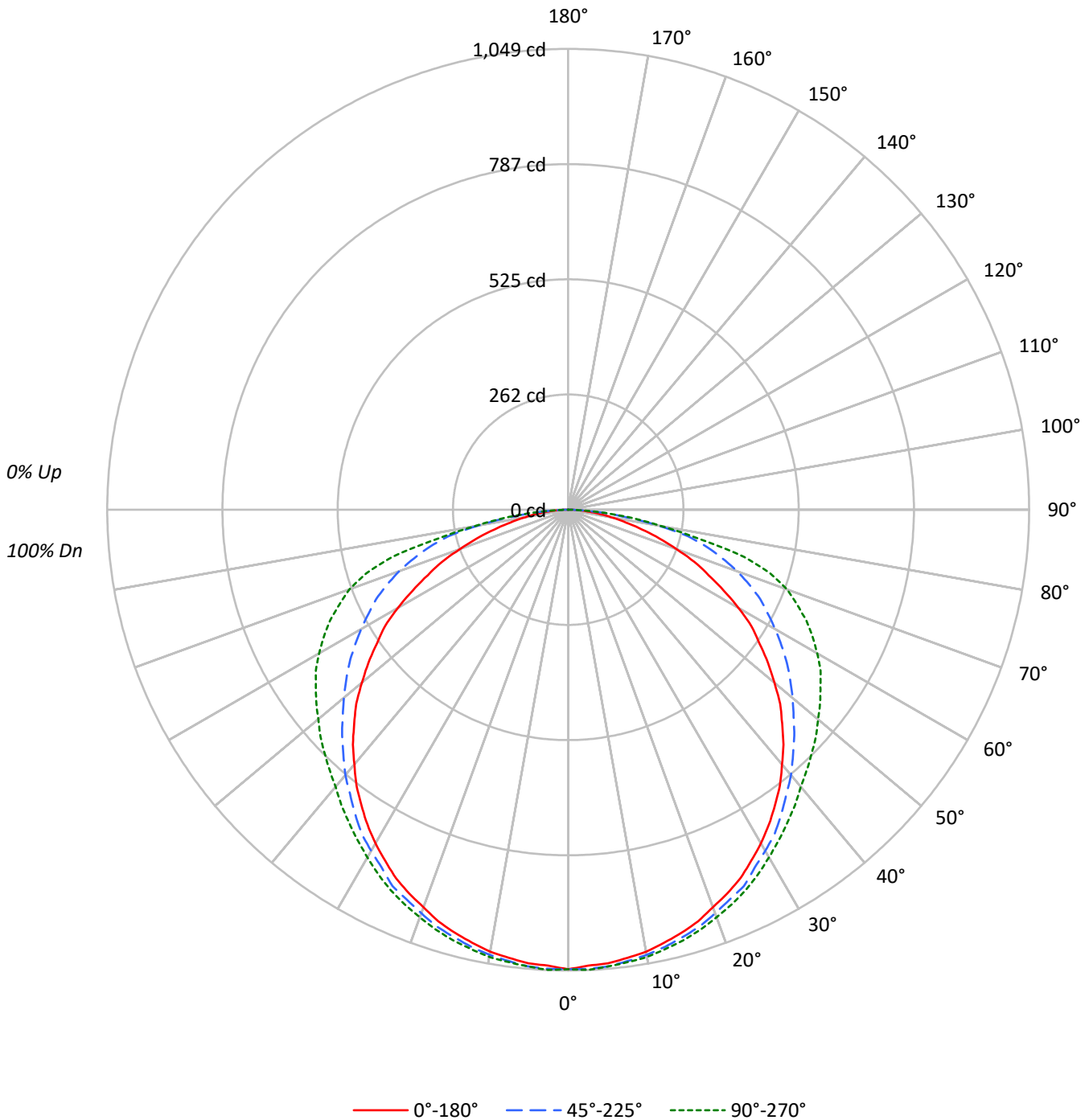
Input Watts (W): 39.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2815	2815	2815
5°	2799	2819	2819
10°	2792	2812	2825
15°	2778	2805	2826
20°	2757	2799	2827
25°	2750	2808	2837
30°	2725	2786	2839
35°	2696	2777	2857
40°	2659	2771	2892
45°	2620	2769	2984
50°	2564	2790	3108
55°	2494	2851	3287
60°	2413	2927	3520
65°	2246	3073	3806
70°	2062	3219	4164
75°	1808	3387	4304
80°	1556	3226	3378
85°	1362	2343	2572



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.0	3.0
10°-20°	284.1	8.5
20°-30°	433.5	13.0
30°-40°	529.3	15.9
40°-50°	565.9	17.0
50°-60°	546.2	16.4
60°-70°	470.2	14.1
70°-80°	318.1	9.6
80°-90°	83.9	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°	816.6	24.5
0°-40°	1345.9	40.4
0°-60°	2458.0	73.8
0°-90°	3330.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3330.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1046	1046	1046	1046	1046	
5°	1036	1039	1044	1044	1044	98
15°	997	1000	1007	1012	1014	281
25°	926	931	946	951	956	426
35°	821	828	845	862	870	514
45°	688	701	728	764	784	531
55°	532	549	608	669	701	476
65°	353	387	483	559	598	351
75°	174	230	326	392	414	187
85°	44	61	76	78	83	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1046.1	1046.1	1046.1	1046.1	1046.1
2.5°	1038.8	1041.2	1046.1	1046.1	1048.6
5°	1036.3	1038.8	1043.7	1043.7	1043.7
7.5°	1029.0	1031.4	1036.3	1038.8	1038.8
10°	1021.6	1024.1	1029.0	1031.4	1033.9
12.5°	1009.4	1011.8	1019.2	1024.1	1024.1
15°	997.1	999.6	1006.9	1011.8	1014.3
17.5°	982.4	987.3	994.7	999.6	1002.0
20°	962.8	967.7	977.5	984.9	987.3
22.5°	945.7	950.6	960.4	967.7	972.6
25°	926.1	931.0	945.7	950.6	955.5
27.5°	901.6	906.5	918.7	928.5	935.9
30°	877.1	882.0	896.7	908.9	913.8
32.5°	850.1	857.5	874.6	884.4	891.8
35°	820.7	828.1	845.2	862.4	869.7
37.5°	791.3	798.7	815.8	837.9	847.7
40°	757.0	766.8	788.9	818.3	823.2
42.5°	725.2	737.4	757.0	791.3	803.6
45°	688.4	700.7	727.6	764.4	784.0
47.5°	654.1	666.4	695.8	739.9	764.4
50°	612.5	629.6	666.4	717.8	742.3
52.5°	573.3	588.0	637.0	693.3	722.7
55°	531.6	548.8	607.6	668.8	700.7
57.5°	494.9	509.6	575.7	644.3	681.1
60°	448.3	467.9	543.9	617.4	654.1
62.5°	399.3	428.7	512.0	588.0	627.2
65°	352.8	387.1	482.6	558.6	597.8
67.5°	311.1	347.9	445.9	526.7	563.5
70°	262.1	308.7	409.1	487.5	529.2
72.5°	218.0	269.5	367.5	445.9	482.6
75°	173.9	230.3	325.8	392.0	414.0
77.5°	134.7	188.6	279.3	298.9	301.3
80°	100.4	149.4	208.2	210.7	218.0
82.5°	68.6	105.3	134.7	147.0	149.4
85°	44.1	61.2	75.9	78.4	83.3
87.5°	19.6	22.0	26.9	24.5	24.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)