

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: P390486

Luminaire Tested: **22CZ2-55VHE-RDP-UNV-L950-CD1-SDWPD1-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: P390486
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-SDWPD1-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: 3290.3 lumens
Efficiency: N/A
Efficacy: 83.5 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

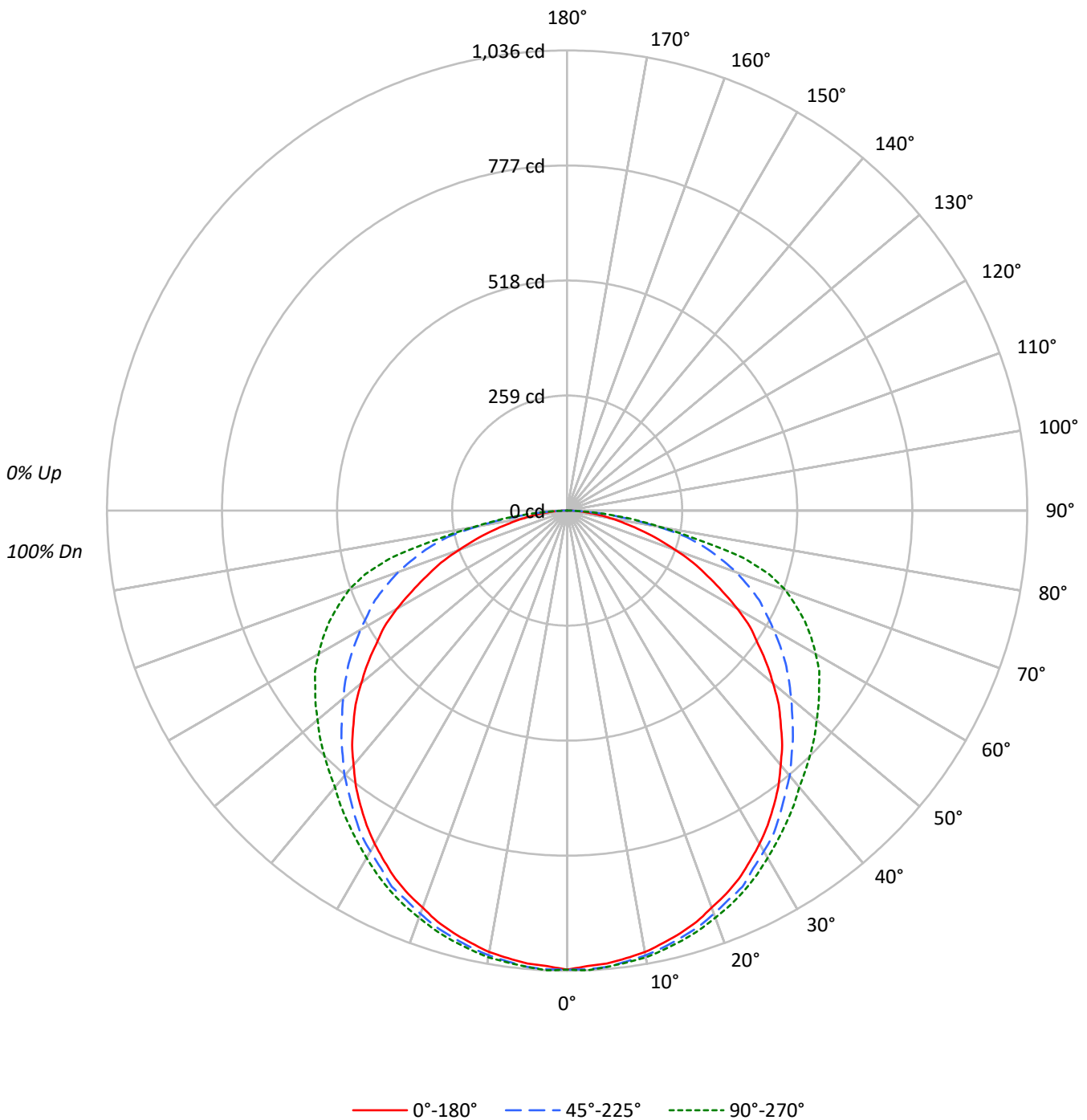
Input Watts (W): 39.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2781	2781	2781
5°	2766	2785	2785
10°	2758	2778	2791
15°	2744	2771	2792
20°	2724	2766	2793
25°	2716	2774	2803
30°	2692	2753	2805
35°	2664	2743	2823
40°	2627	2738	2857
45°	2589	2736	2948
50°	2533	2756	3070
55°	2464	2816	3248
60°	2384	2892	3478
65°	2219	3036	3761
70°	2038	3180	4113
75°	1787	3347	4253
80°	1537	3188	3338
85°	1346	2316	2541



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.8	3.0
10°-20°	280.7	8.5
20°-30°	428.3	13.0
30°-40°	522.9	15.9
40°-50°	559.1	17.0
50°-60°	539.7	16.4
60°-70°	464.6	14.1
70°-80°	314.3	9.6
80°-90°	82.9	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°	806.7	24.5
0°-40°	1329.7	40.4
0°-60°	2428.5	73.8
0°-90°	3290.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3290.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1034	1034	1034	1034	1034	
5°	1024	1026	1031	1031	1031	97
15°	985	988	995	1000	1002	278
25°	915	920	934	939	944	421
35°	811	818	835	852	859	507
45°	680	692	719	755	775	525
55°	525	542	600	661	692	471
65°	348	382	477	552	591	347
75°	172	228	322	387	409	184
85°	44	60	75	78	82	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1033.5	1033.5	1033.5	1033.5	1033.5
2.5°	1026.3	1028.7	1033.5	1033.5	1036.0
5°	1023.9	1026.3	1031.1	1031.1	1031.1
7.5°	1016.6	1019.0	1023.9	1026.3	1026.3
10°	1009.3	1011.8	1016.6	1019.0	1021.4
12.5°	997.2	999.7	1006.9	1011.8	1011.8
15°	985.1	987.6	994.8	999.7	1002.1
17.5°	970.6	975.4	982.7	987.6	990.0
20°	951.2	956.1	965.8	973.0	975.4
22.5°	934.3	939.1	948.8	956.1	960.9
25°	914.9	919.8	934.3	939.1	944.0
27.5°	890.7	895.6	907.7	917.4	924.6
30°	866.5	871.4	885.9	898.0	902.8
32.5°	839.9	847.2	864.1	873.8	881.1
35°	810.9	818.1	835.1	852.0	859.3
37.5°	781.8	789.1	806.0	827.8	837.5
40°	747.9	757.6	779.4	808.4	813.3
42.5°	716.5	728.6	747.9	781.8	793.9
45°	680.2	692.3	718.9	755.2	774.6
47.5°	646.3	658.4	687.4	731.0	755.2
50°	605.1	622.1	658.4	709.2	733.4
52.5°	566.4	580.9	629.3	685.0	714.0
55°	525.2	542.2	600.3	660.8	692.3
57.5°	488.9	503.5	568.8	636.6	672.9
60°	442.9	462.3	537.3	610.0	646.3
62.5°	394.5	423.6	505.9	580.9	619.6
65°	348.5	382.4	476.8	551.9	590.6
67.5°	307.4	343.7	440.5	520.4	556.7
70°	259.0	305.0	404.2	481.7	522.8
72.5°	215.4	266.3	363.1	440.5	476.8
75°	171.9	227.5	321.9	387.3	409.1
77.5°	133.1	186.4	275.9	295.3	297.7
80°	99.2	147.6	205.7	208.2	215.4
82.5°	67.8	104.1	133.1	145.2	147.6
85°	43.6	60.5	75.0	77.5	82.3
87.5°	19.4	21.8	26.6	24.2	24.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)