

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: P387898

Luminaire Tested: **22CZ2-34VHE-SQR-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: P387898
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-542-6)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 2/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-34VHE-SQR-UNV-L950-CD1-SWPD1-U
Description: 2x2 CRUZE LED TROFFER WITH 5000K, 90 LEDS, AND SQUARE LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3094.2 lumens
Efficiency: N/A
Efficacy: 123.3 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.31 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

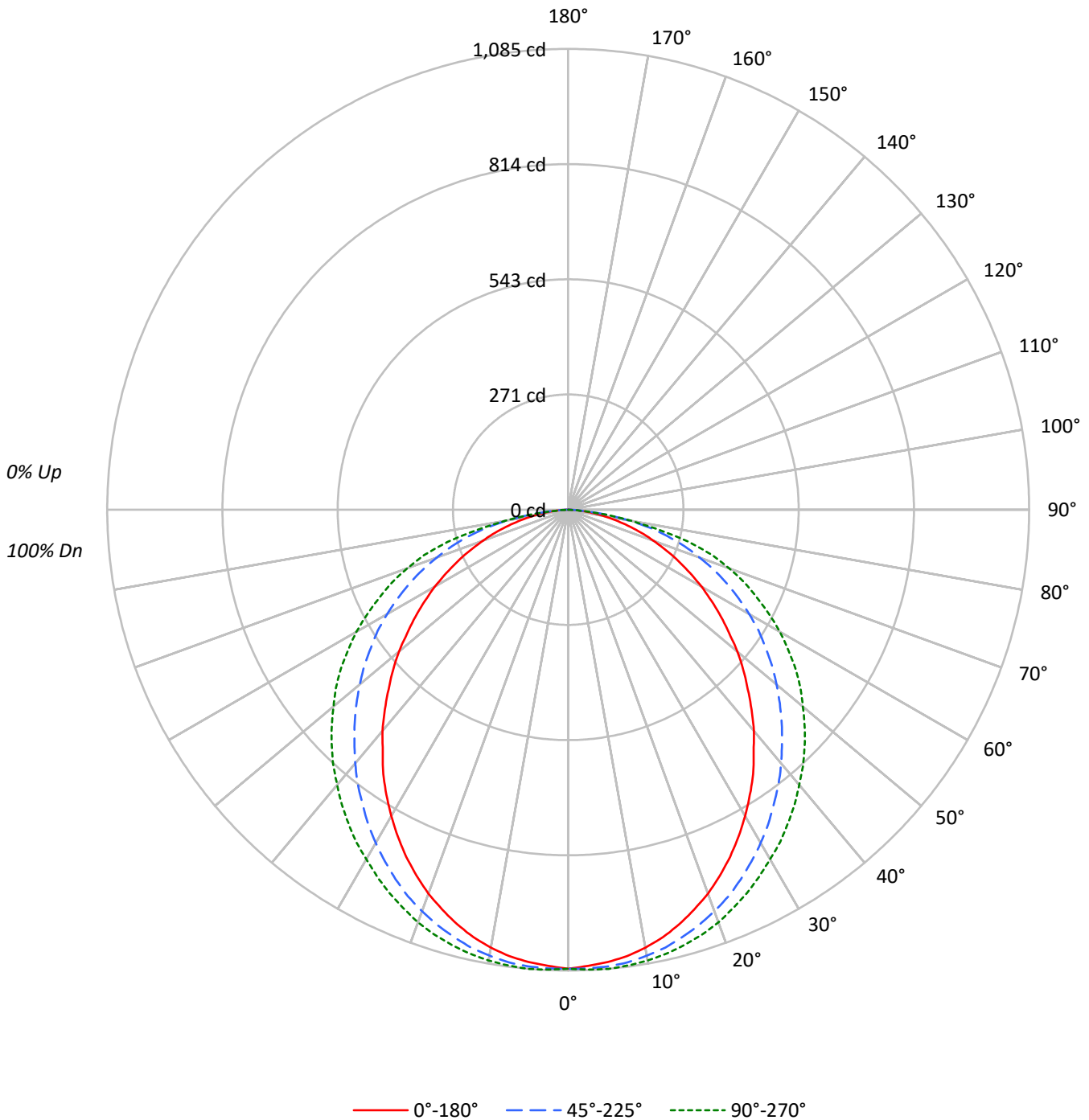
Input Watts (W): 25.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83					83			
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69					69			
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43					43			
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37					37			
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33					33			
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29					29			
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26					26			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2909	2909	2909
5°	2888	2916	2932
10°	2861	2913	2945
15°	2815	2901	2954
20°	2755	2881	2961
25°	2677	2852	2956
30°	2587	2816	2953
35°	2494	2774	2962
40°	2389	2739	2971
45°	2275	2705	2996
50°	2177	2681	3019
55°	2060	2660	3066
60°	1952	2648	3098
65°	1824	2628	3123
70°	1675	2589	3166
75°	1512	2519	3054
80°	1297	2230	2298
85°	1044	1315	1044



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.5	3.3
10°-20°	293.0	9.5
20°-30°	440.0	14.2
30°-40°	524.8	17.0
40°-50°	542.6	17.5
50°-60°	498.9	16.1
60°-70°	397.1	12.8
70°-80°	242.6	7.8
80°-90°	52.7	1.7
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°	835.5	27.0
0°-40°	1360.3	44.0
0°-60°	2401.7	77.6
0°-90°	3094.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3094.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1081	1081	1081	1081	1081	
5°	1069	1072	1079	1084	1085	101
15°	1010	1022	1041	1056	1060	285
25°	902	924	960	987	996	415
35°	759	792	844	888	902	474
45°	598	640	711	768	787	462
55°	439	488	567	632	654	393
65°	286	335	413	470	490	284
75°	145	188	242	285	294	155
85°	34	41	43	37	34	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1080.9	1080.9	1080.9	1080.9	1080.9
2.5°	1075.0	1076.5	1080.9	1083.8	1083.8
5°	1069.1	1072.1	1079.4	1083.8	1085.3
7.5°	1060.3	1064.7	1075.0	1080.9	1082.3
10°	1047.1	1053.0	1066.2	1075.0	1077.9
12.5°	1030.9	1039.8	1055.9	1067.7	1070.6
15°	1010.4	1022.1	1041.2	1055.9	1060.3
17.5°	986.9	1001.6	1025.1	1042.7	1048.6
20°	961.9	976.6	1006.0	1026.5	1033.9
22.5°	932.6	951.6	985.4	1008.9	1014.8
25°	901.7	923.7	960.5	986.9	995.7
27.5°	867.9	894.4	934.0	966.3	973.7
30°	832.7	860.6	906.1	941.4	950.2
32.5°	796.0	828.3	876.7	916.4	928.1
35°	759.3	791.6	844.4	888.5	901.7
37.5°	716.7	754.9	813.6	859.1	875.3
40°	680.0	716.7	779.8	829.8	845.9
42.5°	638.8	678.5	744.6	798.9	818.0
45°	597.7	640.3	710.8	768.1	787.2
47.5°	559.5	602.1	675.5	735.8	754.9
50°	519.9	563.9	640.3	702.0	721.1
52.5°	477.3	525.8	605.1	666.7	688.8
55°	439.1	487.6	566.9	631.5	653.5
57.5°	399.5	449.4	531.6	593.3	613.9
60°	362.7	411.2	492.0	552.2	575.7
62.5°	323.1	373.0	452.3	511.1	533.1
65°	286.4	334.8	412.7	469.9	490.5
67.5°	249.7	298.1	371.6	425.9	449.4
70°	212.9	261.4	329.0	381.8	402.4
72.5°	180.6	223.2	287.8	336.3	355.4
75°	145.4	188.0	242.3	284.9	293.7
77.5°	113.1	151.3	196.8	215.9	218.8
80°	83.7	113.1	143.9	148.3	148.3
82.5°	55.8	77.8	89.6	91.1	89.6
85°	33.8	41.1	42.6	36.7	33.8
87.5°	11.7	11.7	7.3	4.4	1.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)