

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: P390342

Luminaire Tested: **22CZ2-39VHE-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: P390342
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: 22CZ2-39VHE-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: 2426.4 lumens
Efficiency: N/A
Efficacy: 84.8 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

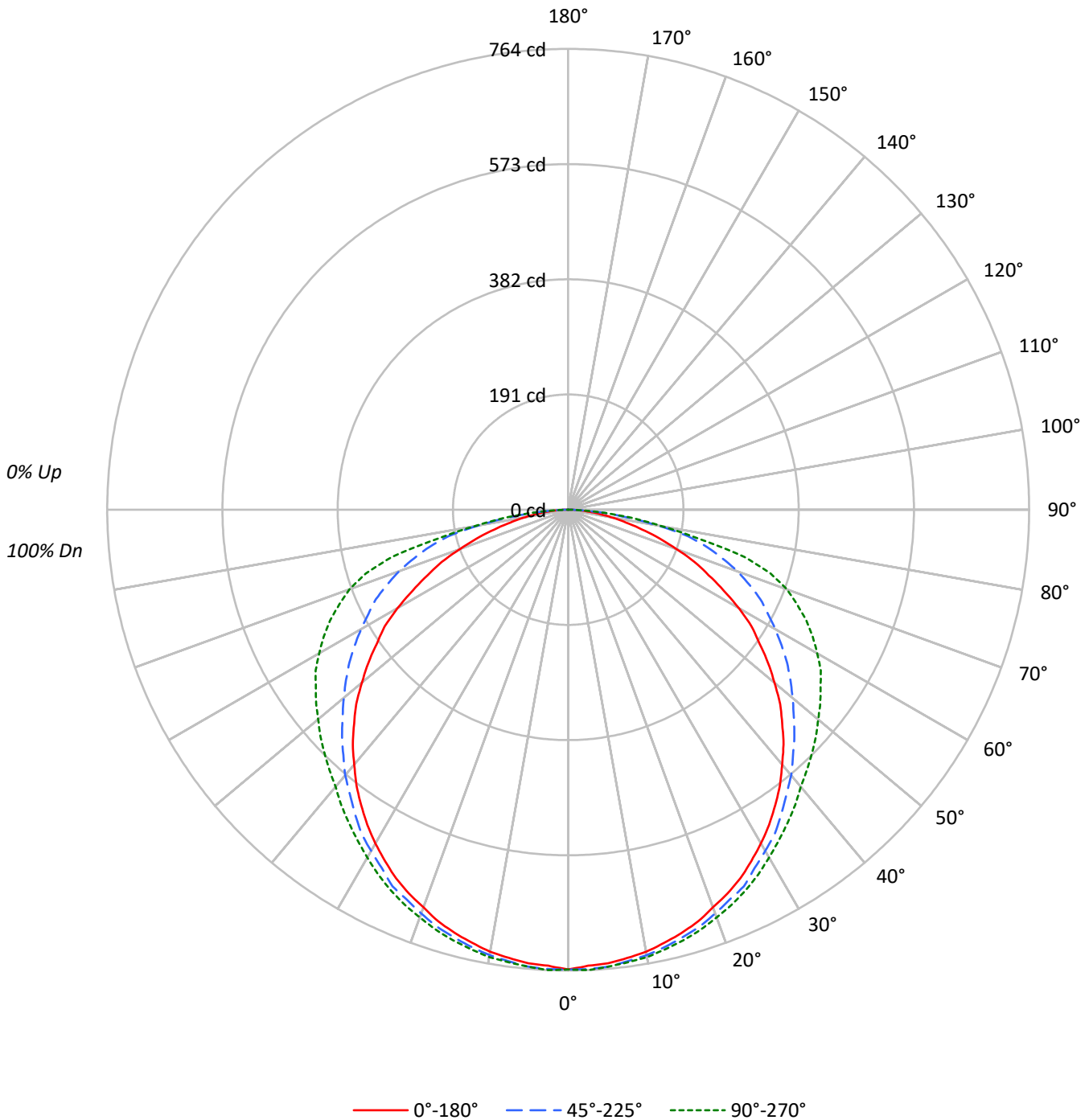
Input Watts (W): 28.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2051	2051	2051
5°	2039	2054	2054
10°	2034	2049	2058
15°	2024	2044	2059
20°	2009	2040	2060
25°	2003	2046	2067
30°	1986	2030	2069
35°	1964	2023	2082
40°	1938	2019	2107
45°	1909	2017	2174
50°	1868	2033	2264
55°	1817	2077	2395
60°	1758	2133	2565
65°	1636	2239	2773
70°	1503	2345	3033
75°	1317	2468	3137
80°	1134	2351	2462
85°	991	1707	1874



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.1	3.0
10°-20°	207.0	8.5
20°-30°	315.8	13.0
30°-40°	385.6	15.9
40°-50°	412.3	17.0
50°-60°	398.0	16.4
60°-70°	342.6	14.1
70°-80°	231.8	9.6
80°-90°	61.2	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°	594.9	24.5
0°-40°	980.6	40.4
0°-60°	1790.9	73.8
0°-90°	2426.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2426.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	762	762	762	762	762	
5°	755	757	760	760	760	72
15°	726	728	734	737	739	205
25°	675	678	689	693	696	311
35°	598	603	616	628	634	374
45°	502	510	530	557	571	387
55°	387	400	443	487	510	347
65°	257	282	352	407	436	256
75°	127	168	237	286	302	136
85°	32	45	55	57	61	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	762.2	762.2	762.2	762.2	762.2
2.5°	756.8	758.6	762.2	762.2	764.0
5°	755.0	756.8	760.4	760.4	760.4
7.5°	749.7	751.5	755.0	756.8	756.8
10°	744.3	746.1	749.7	751.5	753.2
12.5°	735.4	737.2	742.5	746.1	746.1
15°	726.5	728.3	733.6	737.2	739.0
17.5°	715.8	719.3	724.7	728.3	730.0
20°	701.5	705.1	712.2	717.6	719.3
22.5°	689.0	692.6	699.7	705.1	708.6
25°	674.7	678.3	689.0	692.6	696.1
27.5°	656.9	660.4	669.4	676.5	681.9
30°	639.0	642.6	653.3	662.2	665.8
32.5°	619.4	624.7	637.2	644.4	649.7
35°	598.0	603.3	615.8	628.3	633.7
37.5°	576.5	581.9	594.4	610.5	617.6
40°	551.6	558.7	574.8	596.2	599.7
42.5°	528.3	537.3	551.6	576.5	585.5
45°	501.6	510.5	530.1	556.9	571.2
47.5°	476.6	485.5	506.9	539.1	556.9
50°	446.2	458.7	485.5	523.0	540.8
52.5°	417.7	428.4	464.1	505.1	526.6
55°	387.3	399.8	442.7	487.3	510.5
57.5°	360.6	371.3	419.5	469.4	496.2
60°	326.6	340.9	396.3	449.8	476.6
62.5°	290.9	312.4	373.1	428.4	456.9
65°	257.0	282.0	351.6	407.0	435.5
67.5°	226.7	253.5	324.9	383.8	410.5
70°	191.0	224.9	298.1	355.2	385.5
72.5°	158.9	196.3	267.7	324.9	351.6
75°	126.7	167.8	237.4	285.6	301.7
77.5°	98.2	137.4	203.5	217.8	219.5
80°	73.2	108.9	151.7	153.5	158.9
82.5°	50.0	76.8	98.2	107.1	108.9
85°	32.1	44.6	55.3	57.1	60.7
87.5°	14.3	16.1	19.6	17.8	17.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)