

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: P388230

Luminaire Tested: **22CZ2-24VHE-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: P388230
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-27)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 2/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-24VHE-UNV-L950-CD1-SDWPD1-U
Description: 2x2 CRUZE LED TROFFER WITH 5000K, 90 LEDS, AND RIBBED LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2212.5 lumens
Efficiency: N/A
Efficacy: 126.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

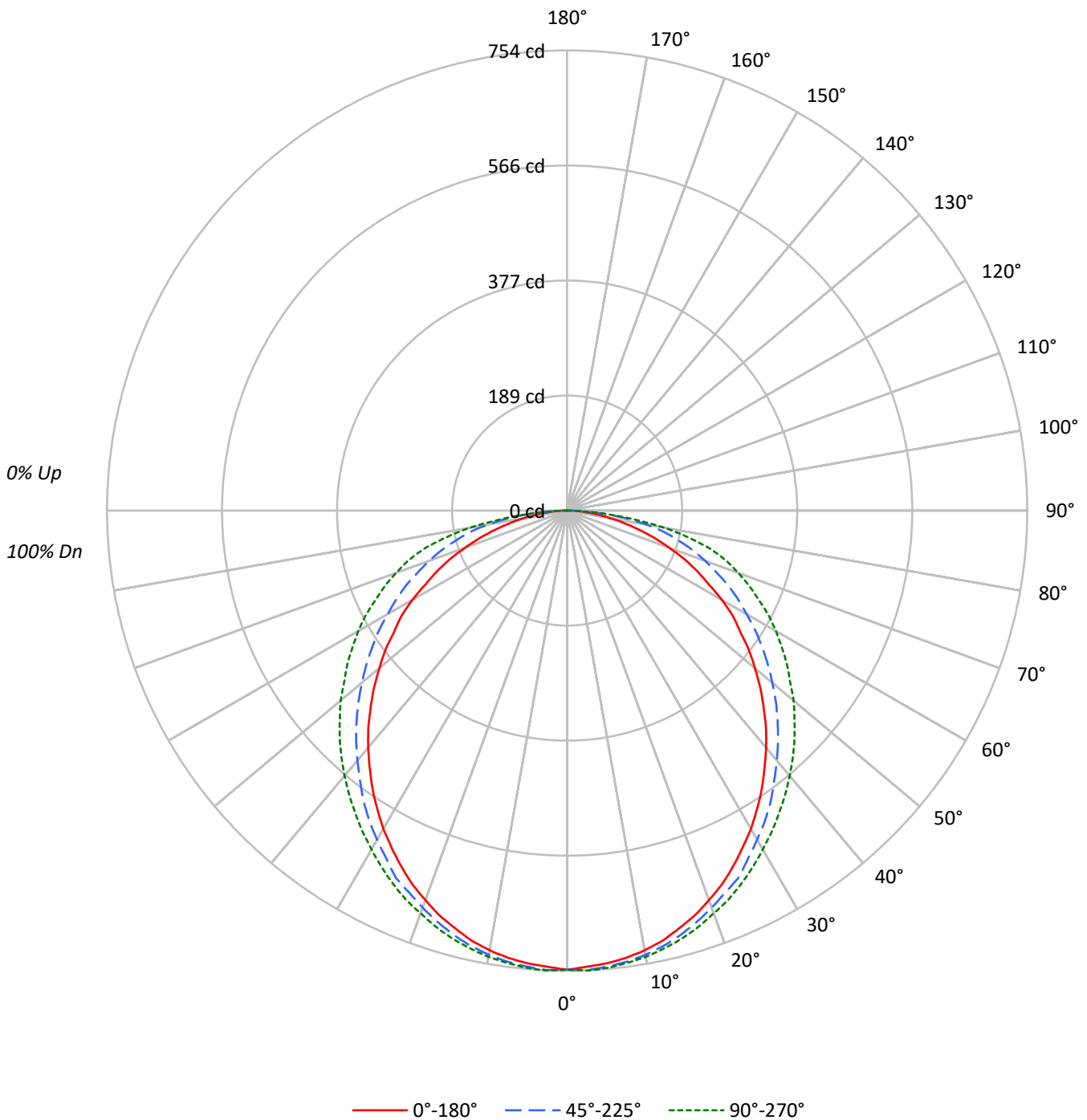
Input Watts (W): 17.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	96	93	96	93	90	92	90	87	89	86	84	82
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68
3	89	78	69	63	86	76	68	62	73	66	61	70	65	60	68	63	59	56
4	81	69	60	53	79	67	59	52	65	57	52	63	56	51	60	55	50	48
5	75	61	52	45	72	60	52	45	58	50	44	56	49	44	54	48	44	41
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31	42	35	30	41	35	30	28
9	56	42	34	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2024	2024	2024
5°	2012	2026	2032
10°	1999	2020	2029
15°	1974	2005	2023
20°	1945	1983	2011
25°	1910	1972	2004
30°	1871	1935	1992
35°	1827	1910	1988
40°	1782	1878	1992
45°	1732	1856	2005
50°	1682	1837	2028
55°	1624	1829	2063
60°	1576	1828	2127
65°	1498	1858	2204
70°	1397	1893	2347
75°	1279	1958	2536
80°	1114	2041	2497
85°	976	1815	1982



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.1	3.2
10°-20°	202.6	9.2
20°-30°	304.2	13.7
30°-40°	363.5	16.4
40°-50°	378.0	17.1
50°-60°	350.3	15.8
60°-70°	287.4	13.0
70°-80°	194.3	8.8
80°-90°	61.0	2.8
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°	578.0	26.1
0°-40°	941.5	42.6
0°-60°	1669.8	75.5
0°-90°	2212.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2212.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	752	752	752	752	752	
5°	745	746	750	751	752	71
15°	709	712	720	724	726	200
25°	643	649	664	672	675	296
35°	556	564	581	599	605	348
45°	455	464	488	516	527	351
55°	346	357	390	425	440	311
65°	235	248	292	330	346	232
75°	123	144	188	226	244	130
85°	32	44	59	65	64	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	752.3	752.3	752.3	752.3	752.3
2.5°	747.9	750.1	753.4	754.5	754.5
5°	744.7	745.8	750.1	751.2	752.3
7.5°	739.2	741.4	745.8	746.8	747.9
10°	731.6	733.8	739.2	741.4	742.5
12.5°	721.8	724.0	730.5	733.8	734.9
15°	708.7	712.0	719.6	724.0	726.2
17.5°	695.7	698.9	706.6	713.1	715.3
20°	679.3	687.0	692.4	701.1	702.2
22.5°	663.0	667.4	677.2	685.9	690.2
25°	643.4	648.9	664.1	671.7	675.0
27.5°	622.7	630.4	642.3	654.3	658.7
30°	602.1	607.5	622.7	636.9	641.2
32.5°	579.2	586.8	603.1	617.3	623.8
35°	556.3	563.9	581.4	598.8	605.3
37.5°	531.3	540.0	557.4	578.1	586.8
40°	507.3	513.9	534.6	559.6	567.2
42.5°	482.3	489.9	511.7	538.9	547.6
45°	455.1	463.8	487.7	516.0	526.9
47.5°	428.9	437.7	463.8	492.1	505.2
50°	401.7	412.6	438.7	471.4	484.5
52.5°	375.6	385.4	414.8	448.5	460.5
55°	346.2	357.1	389.8	424.6	439.8
57.5°	322.3	329.9	365.8	401.7	417.0
60°	292.9	302.7	339.7	377.8	395.2
62.5°	261.3	277.6	315.7	354.9	372.3
65°	235.2	248.2	291.8	329.9	346.2
67.5°	207.9	222.1	264.6	304.8	323.3
70°	177.5	196.0	240.6	280.9	298.3
72.5°	150.2	169.8	215.6	254.8	273.3
75°	123.0	143.7	188.3	226.4	243.9
77.5°	96.9	119.8	163.3	192.7	203.6
80°	71.9	93.6	131.7	152.4	161.1
82.5°	50.1	68.6	96.9	107.8	110.0
85°	31.6	43.5	58.8	65.3	64.2
87.5°	14.2	17.4	21.8	24.0	22.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)