

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: P389401

Luminaire Tested: **22CZ2-75VHE-S-UNV-L935-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: P389401
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-23)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 2/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-75VHE-S-UNV-L935-CD1-SWPD1-U
Description: 2x2 CRUZE LED TROFFER WITH 3500K, 90 LEDS, AND SMOOTH LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6630.2 lumens
Efficiency: N/A
Efficacy: 121.2 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.26 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

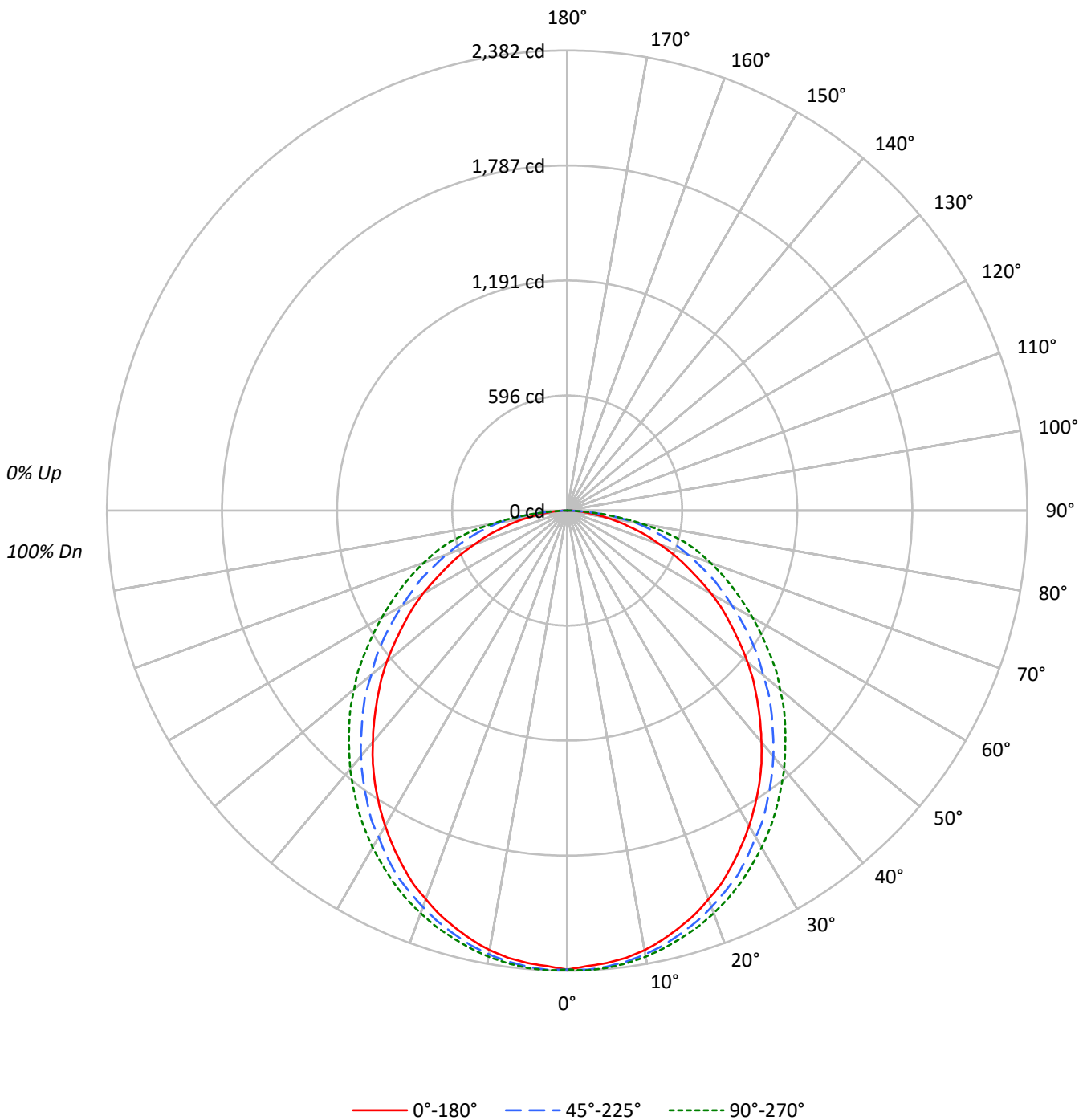
Input Watts (W): 54.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	103	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	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	69	60	54	66	59	53	64	57	52	61	56	52	49					49			
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43					43			
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37					37			
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33					33			
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	30					30			
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27					27			
10	53	40	32	26	51	39	31	26	38	31	26	37	31	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6393	6393	6393
5°	6351	6401	6418
10°	6314	6374	6407
15°	6231	6317	6377
20°	6130	6254	6352
25°	6007	6191	6310
30°	5854	6065	6258
35°	5691	5955	6199
40°	5499	5836	6140
45°	5298	5698	6075
50°	5102	5543	6022
55°	4862	5443	5979
60°	4645	5311	5961
65°	4334	5279	6027
70°	3991	5233	6206
75°	3603	5307	6529
80°	3116	5466	6137
85°	2578	4585	4585



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.7	3.4
10°-20°	639.4	9.6
20°-30°	956.7	14.4
30°-40°	1133.0	17.1
40°-50°	1154.6	17.4
50°-60°	1034.9	15.6
60°-70°	810.2	12.2
70°-80°	522.5	7.9
80°-90°	154.3	2.3
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°	1820.7	27.5
0°-40°	2953.7	44.5
0°-60°	5143.2	77.6
0°-90°	6630.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6630.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2376	2376	2376	2376	2376	
5°	2351	2357	2370	2373	2376	223
15°	2237	2249	2268	2286	2289	631
25°	2023	2042	2085	2113	2125	931
35°	1732	1754	1813	1868	1887	1083
45°	1392	1423	1497	1575	1596	1075
55°	1036	1070	1160	1240	1274	929
65°	681	721	829	910	947	676
75°	346	399	510	597	628	371
85°	84	114	148	148	148	98
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2375.8	2375.8	2375.8	2375.8	2375.8
2.5°	2360.3	2366.5	2378.9	2382.0	2382.0
5°	2351.1	2357.2	2369.6	2372.7	2375.8
7.5°	2335.6	2338.7	2354.2	2360.3	2363.4
10°	2310.8	2317.0	2332.5	2341.8	2344.9
12.5°	2276.8	2286.1	2304.7	2317.0	2320.1
15°	2236.6	2249.0	2267.5	2286.1	2289.2
17.5°	2193.3	2205.7	2230.4	2252.1	2258.3
20°	2140.7	2156.2	2184.0	2208.8	2218.0
22.5°	2088.1	2100.5	2134.5	2165.4	2174.7
25°	2023.1	2041.7	2085.0	2112.9	2125.2
27.5°	1955.1	1976.7	2020.1	2057.2	2069.6
30°	1883.9	1905.6	1952.0	1998.4	2013.9
32.5°	1809.7	1834.4	1890.1	1936.5	1952.0
35°	1732.4	1754.0	1812.8	1868.5	1887.0
37.5°	1651.9	1670.5	1738.5	1797.3	1815.9
40°	1565.3	1590.1	1661.2	1729.3	1747.8
42.5°	1478.7	1506.5	1577.7	1651.9	1670.5
45°	1392.1	1423.0	1497.3	1574.6	1596.2
47.5°	1308.6	1333.3	1416.8	1491.1	1522.0
50°	1218.8	1243.6	1324.0	1407.5	1438.5
52.5°	1126.0	1160.1	1246.7	1327.1	1364.2
55°	1036.3	1070.4	1160.1	1240.5	1274.5
57.5°	952.8	980.6	1073.4	1157.0	1191.0
60°	863.1	887.8	986.8	1076.5	1107.5
62.5°	767.2	804.3	906.4	989.9	1027.0
65°	680.6	720.8	829.1	909.5	946.6
67.5°	600.1	637.3	742.4	829.1	869.3
70°	507.3	556.8	665.1	751.7	788.8
72.5°	433.1	476.4	587.8	674.4	714.6
75°	346.5	399.1	510.4	597.0	628.0
77.5°	275.3	327.9	433.1	501.1	516.6
80°	201.1	253.7	352.7	386.7	396.0
82.5°	136.1	185.6	253.7	262.9	266.0
85°	83.5	114.5	148.5	148.5	148.5
87.5°	40.2	46.4	52.6	49.5	49.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)