

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: P389408

Luminaire Tested: **22CZ2-75VHE-S-UNV-L950-CD1-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: P389408
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-L950-CD1-U
Description: 2x2 CRUZE LED TROFFER WITH 5000K, 90 LEDS, AND SMOOTH LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7199.6 lumens
Efficiency: N/A
Efficacy: 131.6 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

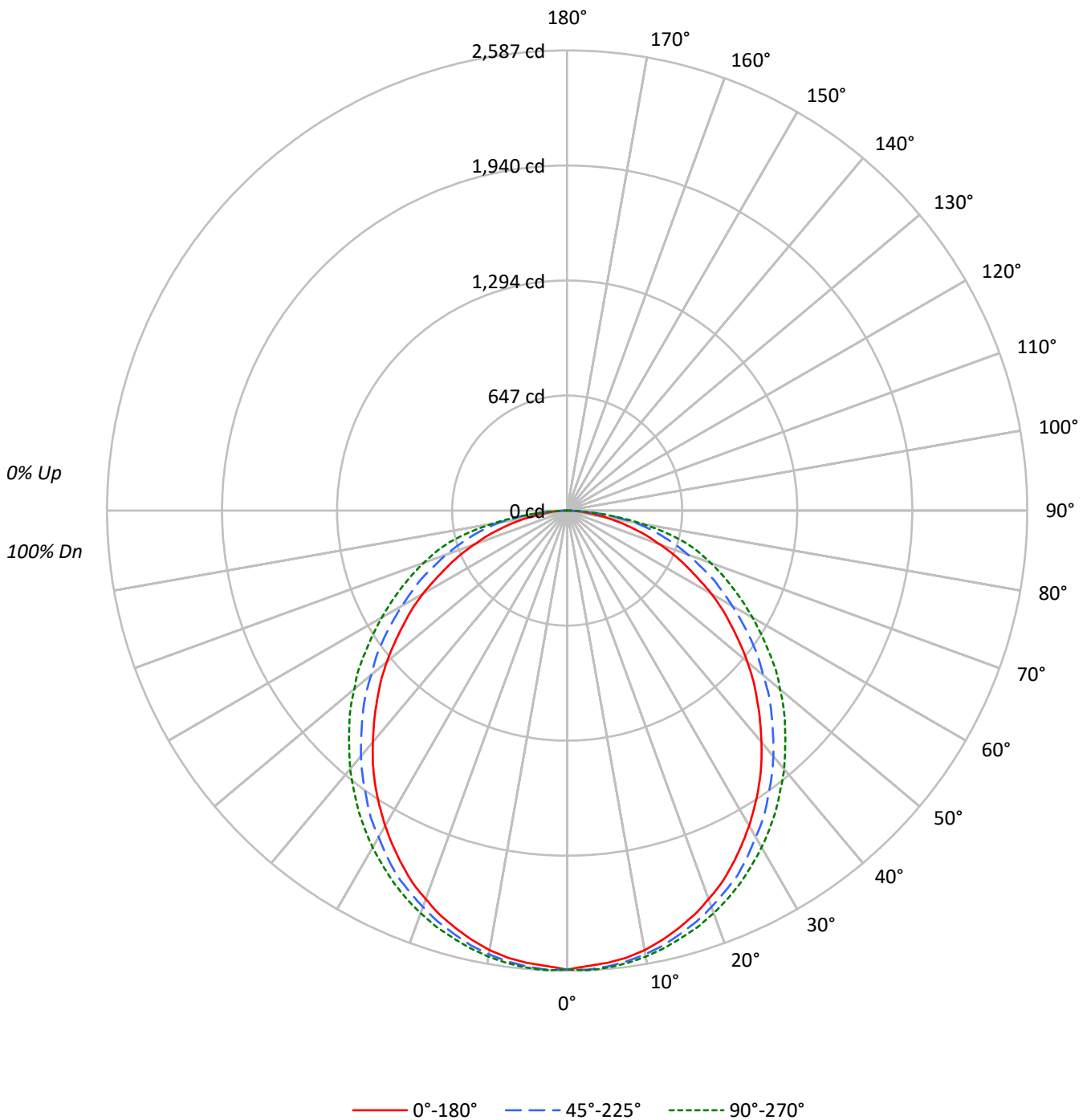
Input Watts (W): 54.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	40	32	26	51	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6942	6942	6942
5°	6896	6951	6969
10°	6857	6921	6957
15°	6766	6860	6925
20°	6657	6792	6897
25°	6523	6722	6852
30°	6357	6586	6795
35°	6180	6467	6731
40°	5971	6337	6667
45°	5753	6187	6596
50°	5541	6019	6539
55°	5279	5910	6493
60°	5044	5767	6472
65°	4706	5733	6545
70°	4334	5682	6740
75°	3911	5763	7090
80°	3383	5934	6664
85°	2800	4977	4977



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.0	3.4
10°-20°	694.3	9.6
20°-30°	1038.8	14.4
30°-40°	1230.3	17.1
40°-50°	1253.8	17.4
50°-60°	1123.7	15.6
60°-70°	879.8	12.2
70°-80°	567.3	7.9
80°-90°	167.6	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°	1977.1	27.5
0°-40°	3207.4	44.5
0°-60°	5584.9	77.6
0°-90°	7199.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7199.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2580	2580	2580	2580	2580	
5°	2553	2560	2573	2576	2580	242
15°	2429	2442	2462	2482	2486	685
25°	2197	2217	2264	2294	2308	1011
35°	1881	1905	1968	2029	2049	1176
45°	1512	1545	1626	1710	1733	1167
55°	1125	1162	1260	1347	1384	1009
65°	739	783	900	988	1028	734
75°	376	433	554	648	682	403
85°	91	124	161	161	161	106
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2579.8	2579.8	2579.8	2579.8	2579.8
2.5°	2563.0	2569.8	2583.2	2586.6	2586.6
5°	2553.0	2559.7	2573.1	2576.5	2579.8
7.5°	2536.2	2539.5	2556.3	2563.0	2566.4
10°	2509.3	2516.0	2532.8	2542.9	2546.2
12.5°	2472.3	2482.4	2502.6	2516.0	2519.4
15°	2428.7	2442.1	2462.3	2482.4	2485.8
17.5°	2381.7	2395.1	2422.0	2445.5	2452.2
20°	2324.5	2341.3	2371.6	2398.4	2408.5
22.5°	2267.4	2280.9	2317.8	2351.4	2361.5
25°	2196.9	2217.1	2264.1	2294.3	2307.7
27.5°	2123.0	2146.5	2193.5	2233.8	2247.3
30°	2045.7	2069.2	2119.6	2170.0	2186.8
32.5°	1965.1	1992.0	2052.5	2102.8	2119.6
35°	1881.1	1904.6	1968.5	2028.9	2049.1
37.5°	1793.8	1814.0	1887.9	1951.7	1971.8
40°	1699.7	1726.6	1803.9	1877.8	1897.9
42.5°	1605.7	1635.9	1713.2	1793.8	1814.0
45°	1511.6	1545.2	1625.8	1709.8	1733.3
47.5°	1420.9	1447.8	1538.5	1619.1	1652.7
50°	1323.5	1350.4	1437.7	1528.4	1562.0
52.5°	1222.7	1259.7	1353.7	1441.1	1481.4
55°	1125.3	1162.3	1259.7	1347.0	1384.0
57.5°	1034.6	1064.9	1165.6	1256.3	1293.3
60°	937.2	964.1	1071.6	1169.0	1202.6
62.5°	833.1	873.4	984.2	1074.9	1115.2
65°	739.0	782.7	900.3	987.6	1027.9
67.5°	651.7	692.0	806.2	900.3	943.9
70°	550.9	604.7	722.2	816.3	856.6
72.5°	470.3	517.3	638.2	732.3	776.0
75°	376.2	433.3	554.3	648.3	681.9
77.5°	299.0	356.1	470.3	544.2	561.0
80°	218.3	275.5	382.9	419.9	430.0
82.5°	147.8	201.6	275.5	285.5	288.9
85°	90.7	124.3	161.2	161.2	161.2
87.5°	43.7	50.4	57.1	53.7	53.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)