

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: P388424

Luminaire Tested: **22CZ2-65VHE-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: P388424
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: 22CZ2-65VHE-UNV-L950-CD1-U
Description: 2x2 CRUZE LED TROFFER WITH 5000K, 90 LEDS, AND RIBBED LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

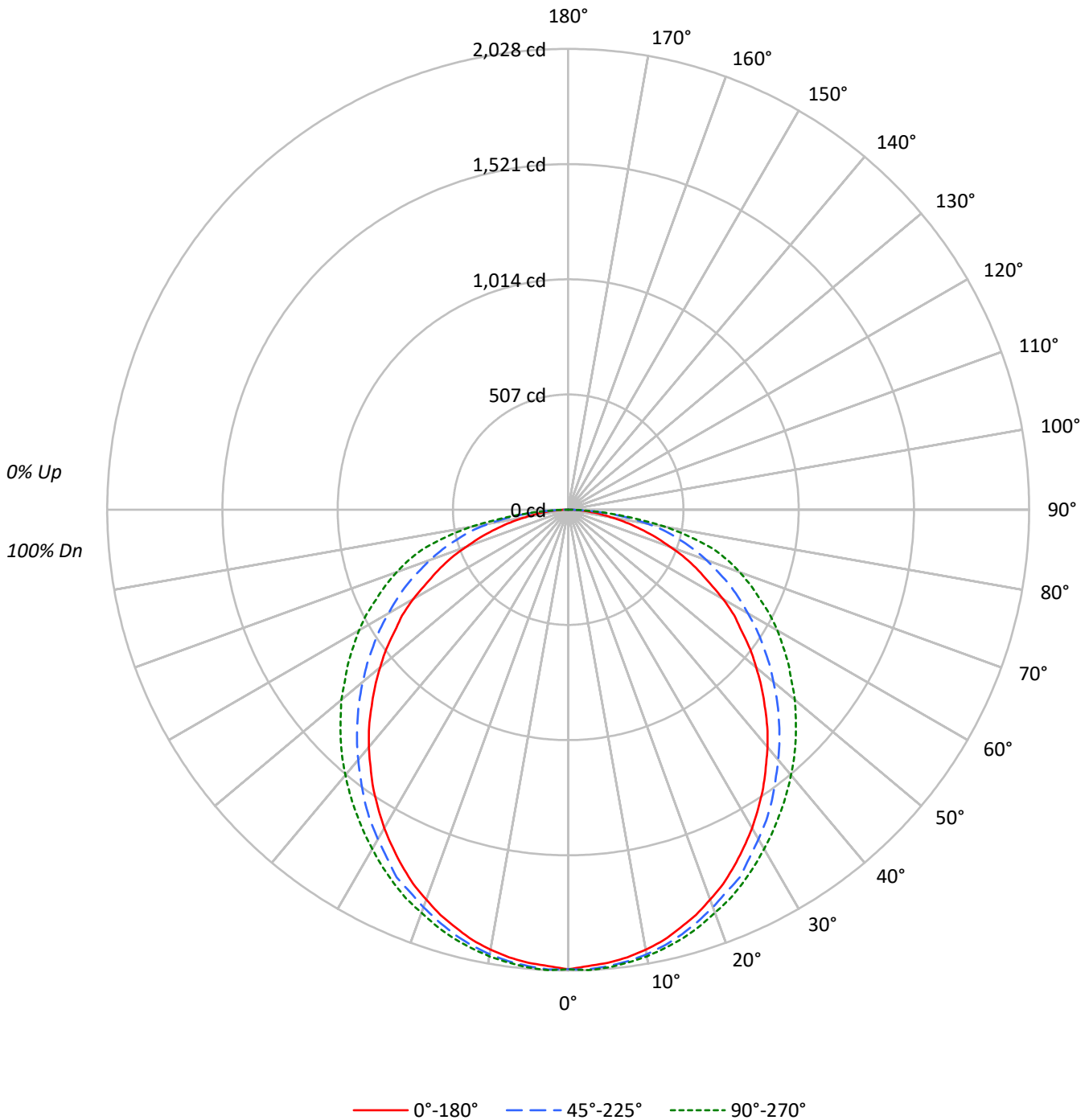
Lumens per Lamp: N/A
Luminaire Lumens: 5947.1 lumens
Efficiency: N/A
Efficacy: 124.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 47.9
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°	5441	5441	5441
5°	5407	5447	5462
10°	5373	5429	5454
15°	5307	5389	5438
20°	5229	5330	5405
25°	5135	5300	5387
30°	5029	5201	5356
35°	4913	5134	5345
40°	4790	5047	5356
45°	4655	4989	5390
50°	4520	4937	5452
55°	4366	4915	5547
60°	4237	4914	5717
65°	4025	4994	5926
70°	3753	5088	6308
75°	3438	5264	6815
80°	2992	5487	6712
85°	2621	4878	5332



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.2	3.2
10°-20°	544.7	9.2
20°-30°	817.7	13.7
30°-40°	977.1	16.4
40°-50°	1016.0	17.1
50°-60°	941.7	15.8
60°-70°	772.4	13.0
70°-80°	522.2	8.8
80°-90°	164.1	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°	1553.7	26.1
0°-40°	2530.7	42.6
0°-60°	4488.5	75.5
0°-90°	5947.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5947.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2022	2022	2022	2022	2022	
5°	2002	2005	2016	2019	2022	190
15°	1905	1914	1934	1946	1952	537
25°	1730	1744	1785	1806	1814	796
35°	1495	1516	1563	1610	1627	935
45°	1223	1247	1311	1387	1416	945
55°	931	960	1048	1141	1182	836
65°	632	667	784	887	931	625
75°	331	386	506	609	656	351
85°	85	117	158	176	173	96
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2022.1	2022.1	2022.1	2022.1	2022.1
2.5°	2010.4	2016.3	2025.0	2028.0	2028.0
5°	2001.6	2004.6	2016.3	2019.2	2022.1
7.5°	1987.0	1992.9	2004.6	2007.5	2010.4
10°	1966.5	1972.4	1987.0	1992.9	1995.8
12.5°	1940.2	1946.0	1963.6	1972.4	1975.3
15°	1905.1	1913.8	1934.3	1946.0	1951.9
17.5°	1870.0	1878.7	1899.2	1916.8	1922.6
20°	1826.1	1846.5	1861.2	1884.6	1887.5
22.5°	1782.2	1793.9	1820.2	1843.6	1855.3
25°	1729.5	1744.1	1785.1	1805.6	1814.4
27.5°	1673.9	1694.4	1726.6	1758.8	1770.5
30°	1618.3	1632.9	1673.9	1711.9	1723.6
32.5°	1556.8	1577.3	1621.2	1659.3	1676.8
35°	1495.4	1515.9	1562.7	1609.5	1627.1
37.5°	1428.1	1451.5	1498.3	1553.9	1577.3
40°	1363.7	1381.2	1436.8	1504.2	1524.6
42.5°	1296.4	1316.9	1375.4	1448.6	1472.0
45°	1223.2	1246.6	1311.0	1387.1	1416.4
47.5°	1153.0	1176.4	1246.6	1322.7	1357.8
50°	1079.8	1109.1	1179.3	1267.1	1302.2
52.5°	1009.6	1035.9	1114.9	1205.7	1237.9
55°	930.6	959.9	1047.6	1141.3	1182.3
57.5°	866.2	886.7	983.3	1079.8	1120.8
60°	787.2	813.5	913.0	1015.5	1062.3
62.5°	702.3	746.2	848.6	954.0	1000.8
65°	632.1	667.2	784.3	886.7	930.6
67.5°	558.9	597.0	711.1	819.4	869.1
70°	477.0	526.7	646.7	755.0	801.8
72.5°	403.8	456.5	579.4	684.8	734.5
75°	330.7	386.3	506.3	608.7	655.5
77.5°	260.4	321.9	439.0	518.0	547.2
80°	193.1	251.7	354.1	409.7	433.1
82.5°	134.6	184.4	260.4	289.7	295.6
85°	84.9	117.1	158.0	175.6	172.7
87.5°	38.0	46.8	58.5	64.4	61.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)