

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: P276093

Luminaire Tested: **24CZ2-55HE-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276093
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-5)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-55HE-UNV-L82765-W2A1-U-5500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5459.3 lumens
Efficiency: N/A
Efficacy: 132.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

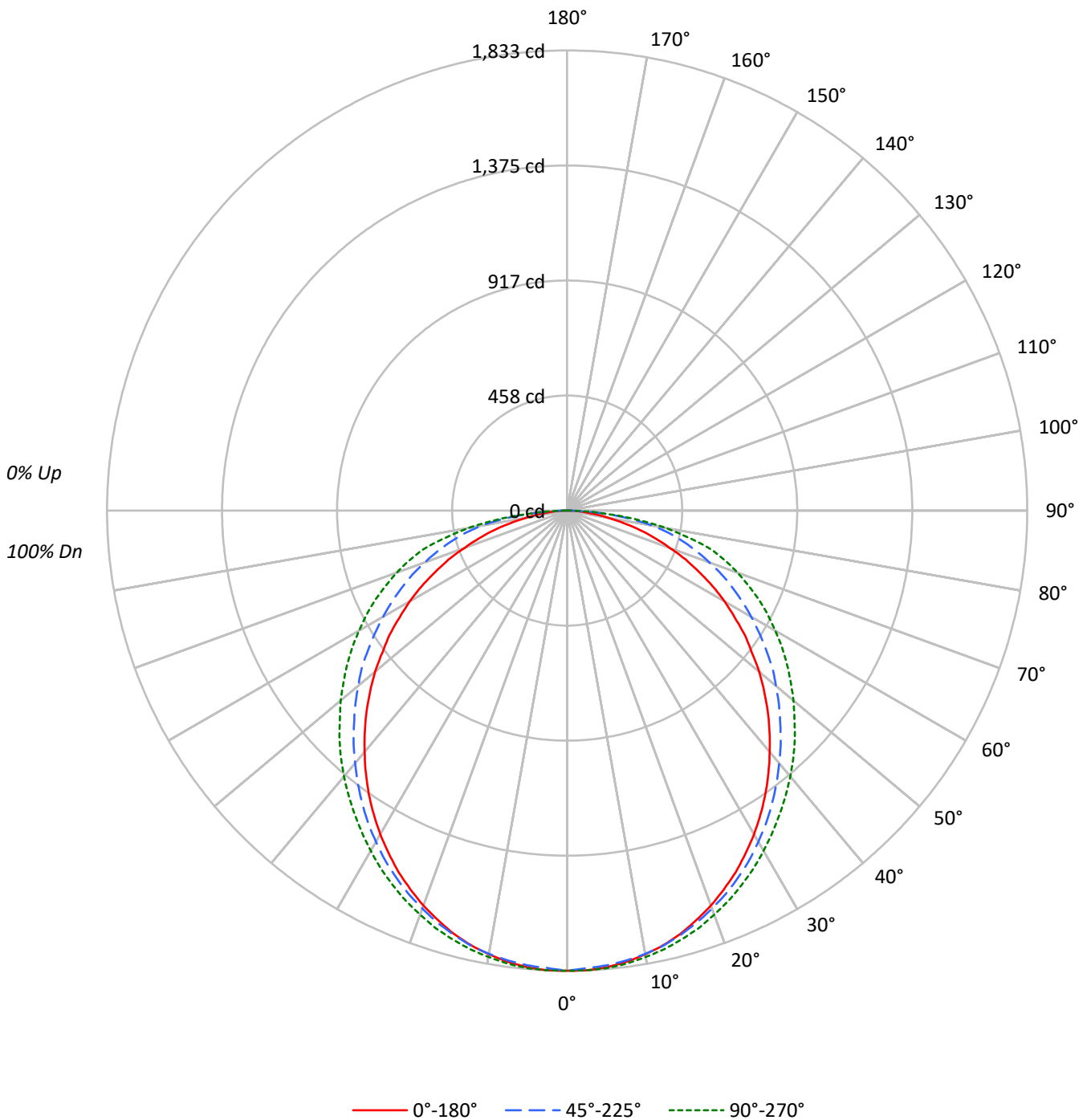
Input Watts (W): 41.199
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	93	89	92	89	87	89	86	84	82
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	58	56
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	50	48
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39	50	44	38	49	43	38	36
7	64	50	41	35	62	49	40	34	47	40	34	46	39	34	45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2466	2466	2466
5°	2466	2456	2471
10°	2452	2450	2467
15°	2431	2436	2462
20°	2397	2416	2452
25°	2359	2394	2443
30°	2313	2367	2432
35°	2263	2337	2424
40°	2205	2307	2429
45°	2150	2285	2441
50°	2090	2273	2464
55°	2026	2270	2509
60°	1946	2280	2574
65°	1845	2315	2686
70°	1713	2373	2838
75°	1563	2491	3079
80°	1285	2682	3078
85°	985	2475	2644



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.4	3.2
10°-20°	494.9	9.1
20°-30°	744.8	13.6
30°-40°	892.5	16.3
40°-50°	930.1	17.0
50°-60°	865.3	15.9
60°-70°	712.7	13.1
70°-80°	485.4	8.9
80°-90°	160.3	2.9
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°	1413.0	25.9
0°-40°	2305.5	42.2
0°-60°	4101.0	75.1
0°-90°	5459.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5459.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1833	1833	1833	1833	1833	
5°	1826	1826	1818	1828	1829	173
15°	1746	1747	1749	1766	1767	492
25°	1589	1596	1612	1640	1645	731
35°	1378	1394	1423	1461	1476	861
45°	1130	1153	1201	1261	1283	871
55°	864	893	968	1044	1070	770
65°	579	629	727	813	844	575
75°	301	368	479	565	592	317
85°	64	124	160	171	171	79
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1833.0	1833.0	1833.0	1833.0	1833.0
2.5°	1833.0	1833.0	1823.9	1833.0	1833.0
5°	1825.7	1825.7	1818.4	1827.5	1829.3
7.5°	1812.9	1814.7	1807.5	1818.4	1820.2
10°	1794.7	1796.5	1792.9	1803.8	1805.6
12.5°	1772.8	1774.7	1774.7	1787.4	1789.2
15°	1745.5	1747.3	1749.1	1765.5	1767.4
17.5°	1710.9	1716.4	1720.0	1740.0	1743.7
20°	1674.4	1679.9	1687.2	1709.1	1712.7
22.5°	1632.5	1639.8	1652.6	1676.3	1681.7
25°	1588.8	1596.1	1612.5	1639.8	1645.3
27.5°	1539.6	1550.5	1570.6	1599.7	1607.0
30°	1488.6	1499.5	1523.2	1554.2	1565.1
32.5°	1433.9	1448.5	1475.8	1510.5	1521.4
35°	1377.5	1393.9	1423.0	1461.3	1475.8
37.5°	1317.3	1335.5	1370.2	1412.1	1430.3
40°	1255.4	1277.2	1313.7	1362.9	1382.9
42.5°	1193.4	1213.5	1259.0	1311.9	1333.7
45°	1129.7	1153.3	1200.7	1260.8	1282.7
47.5°	1064.1	1087.8	1144.2	1208.0	1228.0
50°	998.5	1022.2	1085.9	1153.3	1177.0
52.5°	927.4	958.4	1031.3	1098.7	1122.4
55°	863.6	892.8	967.5	1044.0	1069.5
57.5°	790.8	825.4	907.4	987.5	1014.9
60°	723.3	759.8	847.2	929.2	956.6
62.5°	654.1	694.2	787.1	870.9	901.9
65°	579.4	628.6	727.0	812.6	843.6
67.5°	512.0	563.0	666.9	754.3	781.7
70°	435.5	497.4	603.1	690.5	721.5
72.5°	369.9	431.8	543.0	628.6	659.6
75°	300.6	368.1	479.2	564.8	592.2
77.5°	231.4	306.1	417.2	482.8	491.9
80°	165.8	244.2	346.2	384.4	397.2
82.5°	116.6	187.7	255.1	280.6	287.9
85°	63.8	123.9	160.3	171.3	171.3
87.5°	27.3	52.8	63.8	65.6	67.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)