

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: P276094

Luminaire Tested: **24CZ2-55HE-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276094
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-5700K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5473.5 lumens
Efficiency: N/A
Efficacy: 132.9 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

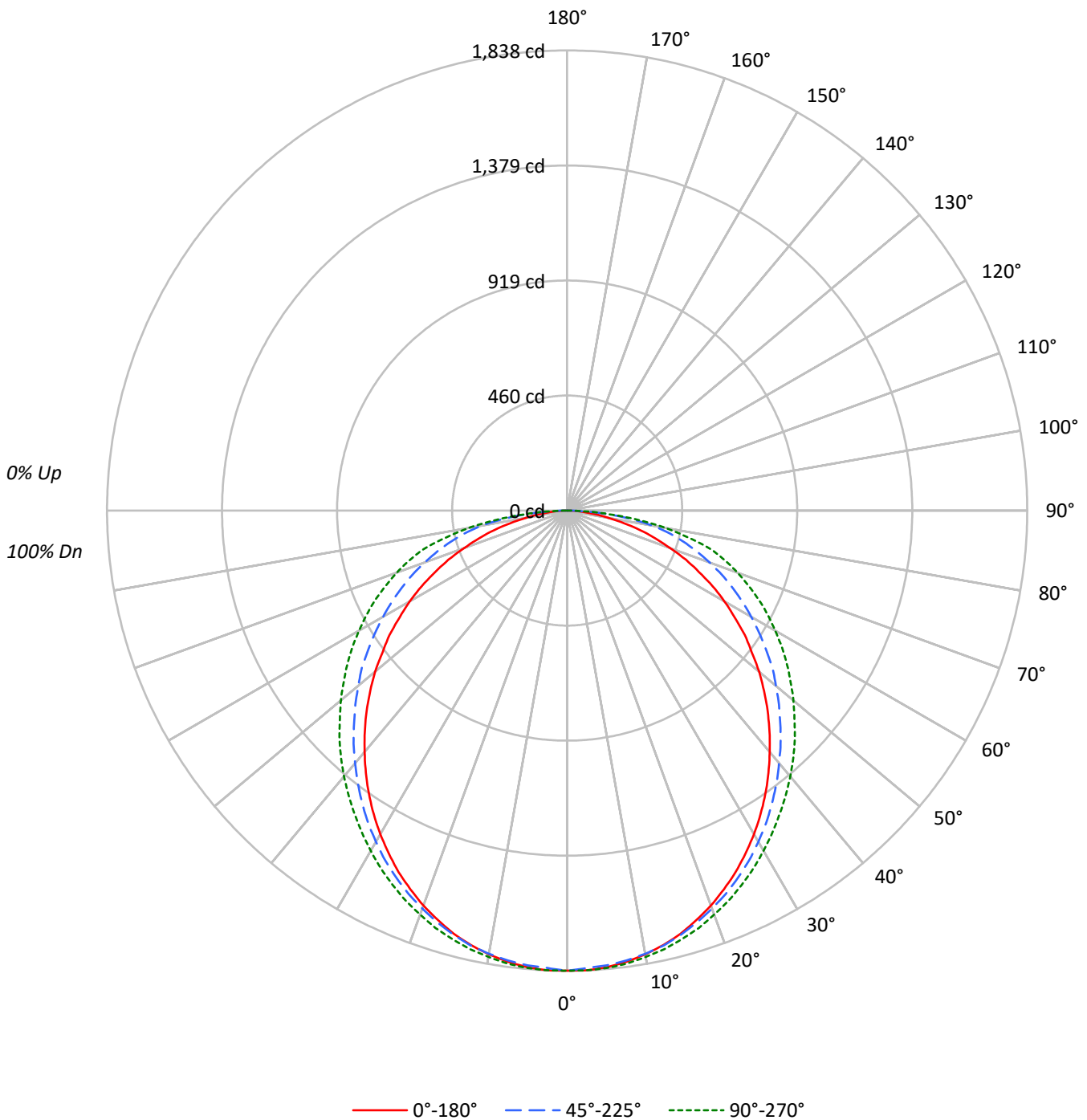
Input Watts (W): 41.199
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2473	2473	2473
5°	2472	2462	2477
10°	2458	2456	2473
15°	2438	2443	2468
20°	2404	2422	2459
25°	2365	2400	2449
30°	2319	2373	2438
35°	2268	2343	2430
40°	2211	2313	2435
45°	2155	2291	2447
50°	2096	2279	2470
55°	2031	2275	2515
60°	1951	2286	2581
65°	1849	2321	2693
70°	1718	2379	2846
75°	1567	2497	3086
80°	1288	2689	3085
85°	986	2482	2651



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.8	3.2
10°-20°	496.2	9.1
20°-30°	746.7	13.6
30°-40°	894.8	16.3
40°-50°	932.5	17.0
50°-60°	867.6	15.9
60°-70°	714.6	13.1
70°-80°	486.6	8.9
80°-90°	160.7	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°	1416.7	25.9
0°-40°	2311.5	42.2
0°-60°	4111.6	75.1
0°-90°	5473.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5473.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1838	1838	1838	1838	1838	
5°	1830	1830	1823	1832	1834	174
15°	1750	1752	1754	1770	1772	493
25°	1593	1600	1617	1644	1650	733
35°	1381	1398	1427	1465	1480	863
45°	1133	1156	1204	1264	1286	874
55°	866	895	970	1047	1072	772
65°	581	630	729	815	846	577
75°	301	369	480	566	594	318
85°	64	124	161	172	172	79
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1837.7	1837.7	1837.7	1837.7	1837.7
2.5°	1837.7	1837.7	1828.6	1837.7	1837.7
5°	1830.4	1830.4	1823.1	1832.2	1834.1
7.5°	1817.6	1819.5	1812.2	1823.1	1824.9
10°	1799.4	1801.2	1797.5	1808.5	1810.3
12.5°	1777.4	1779.3	1779.3	1792.1	1793.9
15°	1750.0	1751.9	1753.7	1770.1	1772.0
17.5°	1715.3	1720.8	1724.5	1744.6	1748.2
20°	1678.8	1684.3	1691.6	1713.5	1717.2
22.5°	1636.8	1644.1	1656.9	1680.6	1686.1
25°	1592.9	1600.2	1616.7	1644.1	1649.6
27.5°	1543.6	1554.6	1574.7	1603.9	1611.2
30°	1492.5	1503.4	1527.2	1558.2	1569.2
32.5°	1437.7	1452.3	1479.7	1514.4	1525.4
35°	1381.0	1397.5	1426.7	1465.1	1479.7
37.5°	1320.8	1339.0	1373.7	1415.7	1434.0
40°	1258.6	1280.6	1317.1	1366.4	1386.5
42.5°	1196.5	1216.6	1262.3	1315.3	1337.2
45°	1132.6	1156.3	1203.8	1264.1	1286.0
47.5°	1066.8	1090.6	1147.2	1211.1	1231.2
50°	1001.1	1024.8	1088.8	1156.3	1180.1
52.5°	929.8	960.9	1033.9	1101.5	1125.3
55°	865.9	895.1	970.0	1046.7	1072.3
57.5°	792.8	827.5	909.7	990.1	1017.5
60°	725.2	761.8	849.4	931.7	959.1
62.5°	655.8	696.0	789.2	873.2	904.2
65°	580.9	630.2	728.9	814.7	845.8
67.5°	513.3	564.5	668.6	756.3	783.7
70°	436.6	498.7	604.7	692.3	723.4
72.5°	370.8	432.9	544.4	630.2	661.3
75°	301.4	369.0	480.4	566.3	593.7
77.5°	232.0	306.9	418.3	484.1	493.2
80°	166.2	244.8	347.1	385.4	398.2
82.5°	116.9	188.2	255.7	281.3	288.6
85°	63.9	124.2	160.8	171.7	171.7
87.5°	27.4	53.0	63.9	65.8	67.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)