

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: P276338

Luminaire Tested: **24CZ2-55HE-S-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276338
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-55HE-S-UNV-L83050-W2A1-U-3500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5517.0 lumens
Efficiency: N/A
Efficacy: 137.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

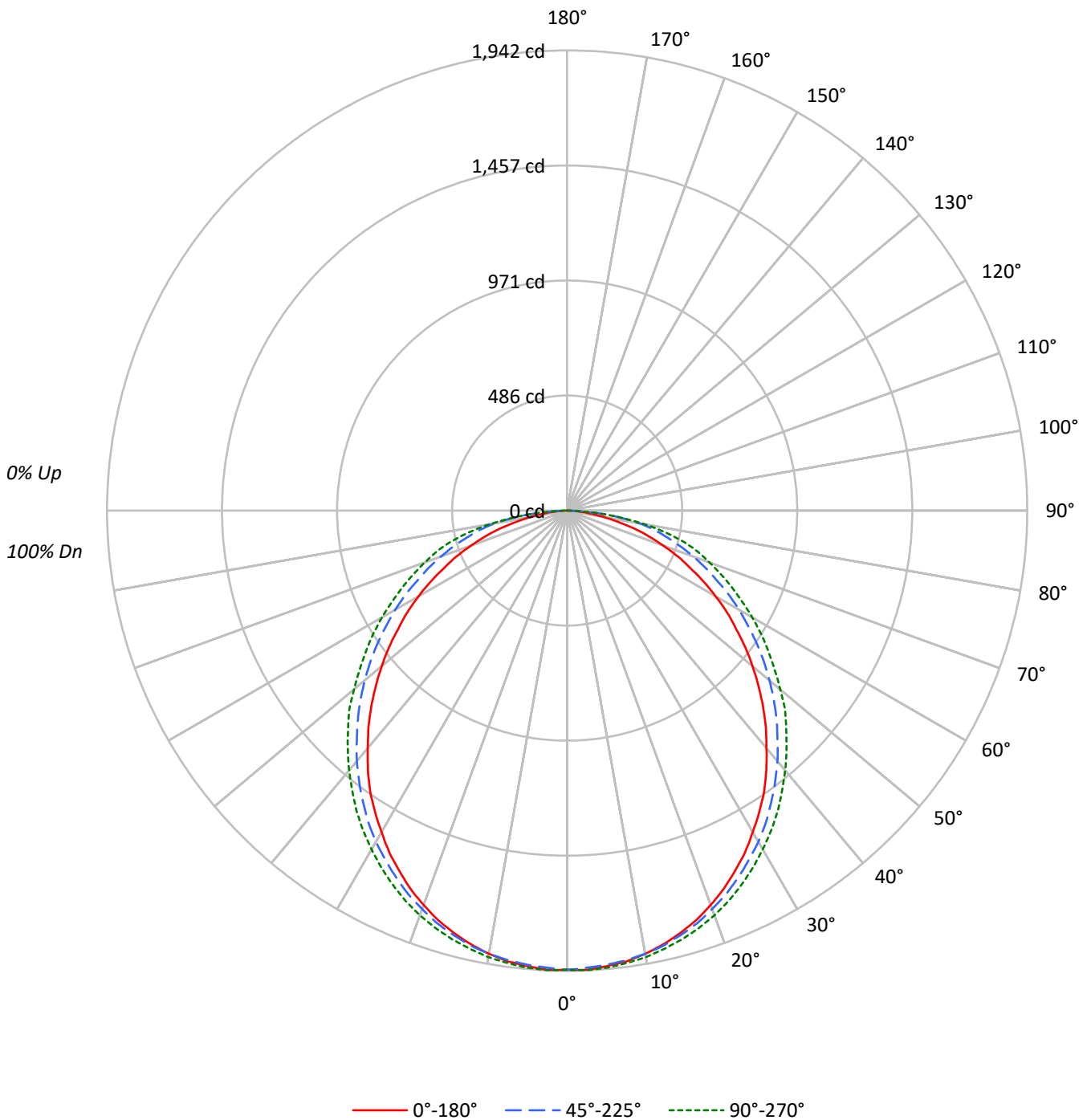
Input Watts (W): 40.083
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2608	2608	2608
5°	2606	2599	2615
10°	2595	2595	2614
15°	2570	2583	2609
20°	2537	2562	2602
25°	2490	2537	2586
30°	2434	2508	2565
35°	2380	2467	2544
40°	2299	2425	2515
45°	2224	2378	2488
50°	2139	2333	2458
55°	2043	2290	2434
60°	1947	2254	2429
65°	1824	2215	2444
70°	1689	2227	2509
75°	1512	2268	2651
80°	1222	2404	2593
85°	920	2110	2056



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.5	3.3
10°-20°	524.3	9.5
20°-30°	788.1	14.3
30°-40°	938.8	17.0
40°-50°	960.8	17.4
50°-60°	865.0	15.7
60°-70°	679.3	12.3
70°-80°	440.9	8.0
80°-90°	136.4	2.5
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°	1495.9	27.1
0°-40°	2434.7	44.1
0°-60°	4260.5	77.2
0°-90°	5517.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5517.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1938	1938	1938	1938	1938	
5°	1929	1933	1924	1935	1936	183
15°	1845	1850	1854	1870	1873	520
25°	1677	1691	1709	1737	1742	773
35°	1449	1467	1502	1539	1549	904
45°	1169	1197	1250	1297	1307	901
55°	871	910	976	1027	1037	781
65°	573	617	696	754	768	570
75°	291	347	436	496	510	308
85°	60	110	137	133	133	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1938.2	1938.2	1938.2	1938.2	1938.2
2.5°	1939.9	1939.9	1931.1	1939.9	1941.7
5°	1929.4	1932.9	1924.1	1934.7	1936.4
7.5°	1918.9	1918.9	1913.6	1924.1	1925.9
10°	1899.6	1901.4	1899.6	1911.9	1913.6
12.5°	1875.1	1878.6	1880.3	1892.6	1894.3
15°	1845.3	1850.5	1854.0	1869.8	1873.3
17.5°	1812.0	1817.2	1826.0	1843.5	1847.0
20°	1771.7	1778.7	1789.2	1812.0	1817.2
22.5°	1727.9	1734.9	1752.4	1773.4	1782.2
25°	1677.1	1691.1	1708.6	1736.6	1741.9
27.5°	1626.2	1638.5	1661.3	1691.1	1698.1
30°	1566.6	1585.9	1614.0	1643.8	1650.8
32.5°	1508.8	1528.1	1561.4	1592.9	1601.7
35°	1449.2	1466.8	1501.8	1538.6	1549.1
37.5°	1380.9	1403.7	1442.2	1479.0	1489.5
40°	1309.0	1337.1	1380.9	1419.4	1431.7
42.5°	1240.7	1270.5	1314.3	1356.4	1370.4
45°	1168.9	1196.9	1249.5	1296.8	1307.3
47.5°	1095.3	1126.8	1182.9	1230.2	1247.7
50°	1021.7	1054.9	1114.5	1163.6	1174.1
52.5°	948.1	983.1	1046.2	1098.8	1104.0
55°	870.9	909.5	976.1	1026.9	1037.4
57.5°	800.8	834.1	906.0	958.6	970.8
60°	723.7	760.5	837.6	886.7	902.5
62.5°	650.1	688.7	769.3	818.4	832.4
65°	573.0	616.8	695.7	753.5	767.6
67.5°	506.4	548.5	632.6	688.7	702.7
70°	429.3	476.7	566.0	623.9	637.9
72.5°	362.7	411.8	501.2	557.3	578.3
75°	290.9	347.0	436.3	495.9	509.9
77.5°	220.8	285.6	376.8	422.3	422.3
80°	157.7	226.1	310.2	331.2	334.7
82.5°	103.4	170.0	229.6	227.8	227.8
85°	59.6	110.4	136.7	133.2	133.2
87.5°	22.8	45.6	49.1	49.1	47.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)