

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: P276096

Luminaire Tested: **24CZ2-60HE-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276096
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: 24CZ2-60HE-UNV-L82765-W2A1-U-2700K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5236.1 lumens
Efficiency: N/A
Efficacy: 118.3 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

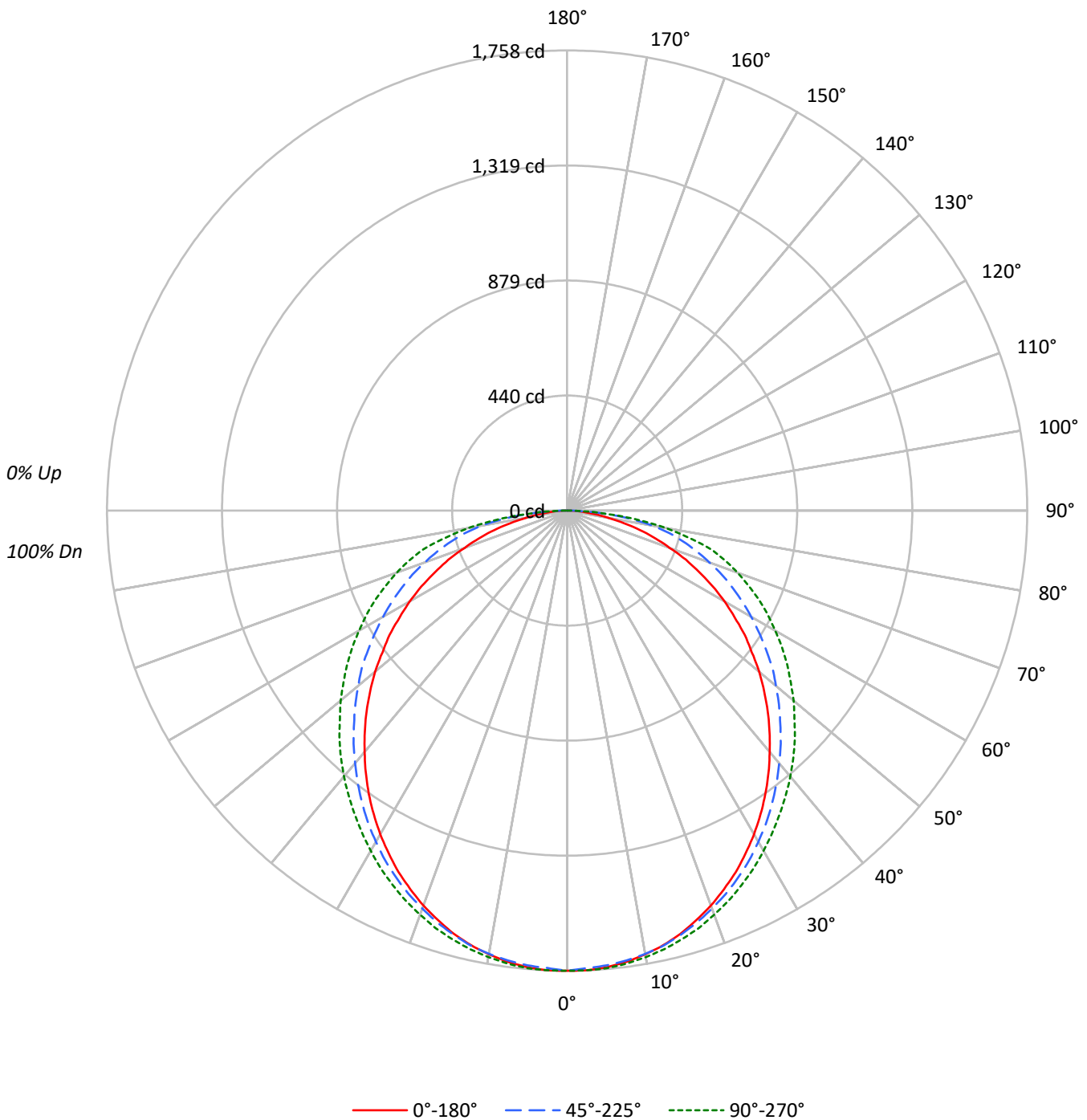
Input Watts (W): 44.268
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2365	2365	2365
5°	2365	2355	2370
10°	2352	2349	2366
15°	2332	2337	2361
20°	2300	2317	2352
25°	2262	2296	2343
30°	2218	2270	2332
35°	2170	2242	2325
40°	2115	2213	2330
45°	2062	2191	2341
50°	2004	2180	2363
55°	1943	2177	2406
60°	1867	2187	2469
65°	1769	2220	2576
70°	1643	2275	2722
75°	1499	2389	2952
80°	1232	2572	2952
85°	945	2374	2536



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.3	3.2
10°-20°	474.7	9.1
20°-30°	714.3	13.6
30°-40°	856.0	16.3
40°-50°	892.1	17.0
50°-60°	830.0	15.9
60°-70°	683.6	13.1
70°-80°	465.5	8.9
80°-90°	153.7	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°	1355.2	25.9
0°-40°	2211.3	42.2
0°-60°	3933.3	75.1
0°-90°	5236.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5236.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1758	1758	1758	1758	1758	
5°	1751	1751	1744	1753	1754	166
15°	1674	1676	1678	1693	1695	472
25°	1524	1531	1547	1573	1578	702
35°	1321	1337	1365	1402	1416	826
45°	1084	1106	1152	1209	1230	836
55°	828	856	928	1001	1026	738
65°	556	603	697	779	809	552
75°	288	353	460	542	568	304
85°	61	119	154	164	164	76
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1758.0	1758.0	1758.0	1758.0	1758.0
2.5°	1758.0	1758.0	1749.3	1758.0	1758.0
5°	1751.0	1751.0	1744.0	1752.8	1754.5
7.5°	1738.8	1740.5	1733.5	1744.0	1745.8
10°	1721.3	1723.1	1719.6	1730.0	1731.8
12.5°	1700.3	1702.1	1702.1	1714.3	1716.1
15°	1674.1	1675.9	1677.6	1693.3	1695.1
17.5°	1640.9	1646.2	1649.7	1668.9	1672.4
20°	1606.0	1611.2	1618.2	1639.2	1642.7
22.5°	1565.8	1572.8	1585.0	1607.7	1613.0
25°	1523.8	1530.8	1546.6	1572.8	1578.0
27.5°	1476.7	1487.1	1506.4	1534.3	1541.3
30°	1427.7	1438.2	1460.9	1490.6	1501.1
32.5°	1375.3	1389.3	1415.5	1448.7	1459.2
35°	1321.1	1336.9	1364.8	1401.5	1415.5
37.5°	1263.5	1280.9	1314.1	1354.3	1371.8
40°	1204.0	1225.0	1260.0	1307.1	1326.4
42.5°	1144.6	1163.8	1207.5	1258.2	1279.2
45°	1083.5	1106.2	1151.6	1209.3	1230.3
47.5°	1020.6	1043.3	1097.4	1158.6	1177.8
50°	957.6	980.4	1041.5	1106.2	1128.9
52.5°	889.5	919.2	989.1	1053.8	1076.5
55°	828.3	856.3	927.9	1001.3	1025.8
57.5°	758.4	791.6	870.3	947.2	973.4
60°	693.8	728.7	812.6	891.2	917.4
62.5°	627.4	665.8	754.9	835.3	865.0
65°	555.7	602.9	697.3	779.4	809.1
67.5°	491.1	540.0	639.6	723.5	749.7
70°	417.7	477.1	578.4	662.3	692.0
72.5°	354.7	414.2	520.8	602.9	632.6
75°	288.3	353.0	459.6	541.7	567.9
77.5°	221.9	293.6	400.2	463.1	471.8
80°	159.0	234.2	332.0	368.7	381.0
82.5°	111.8	180.0	244.7	269.1	276.1
85°	61.2	118.8	153.8	164.3	164.3
87.5°	26.2	50.7	61.2	62.9	64.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)