

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: P276236

Luminaire Tested: **24CZ2-60HE-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276236
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-L92765-W2A1-U-5000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5274.9 lumens
Efficiency: N/A
Efficacy: 116.5 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

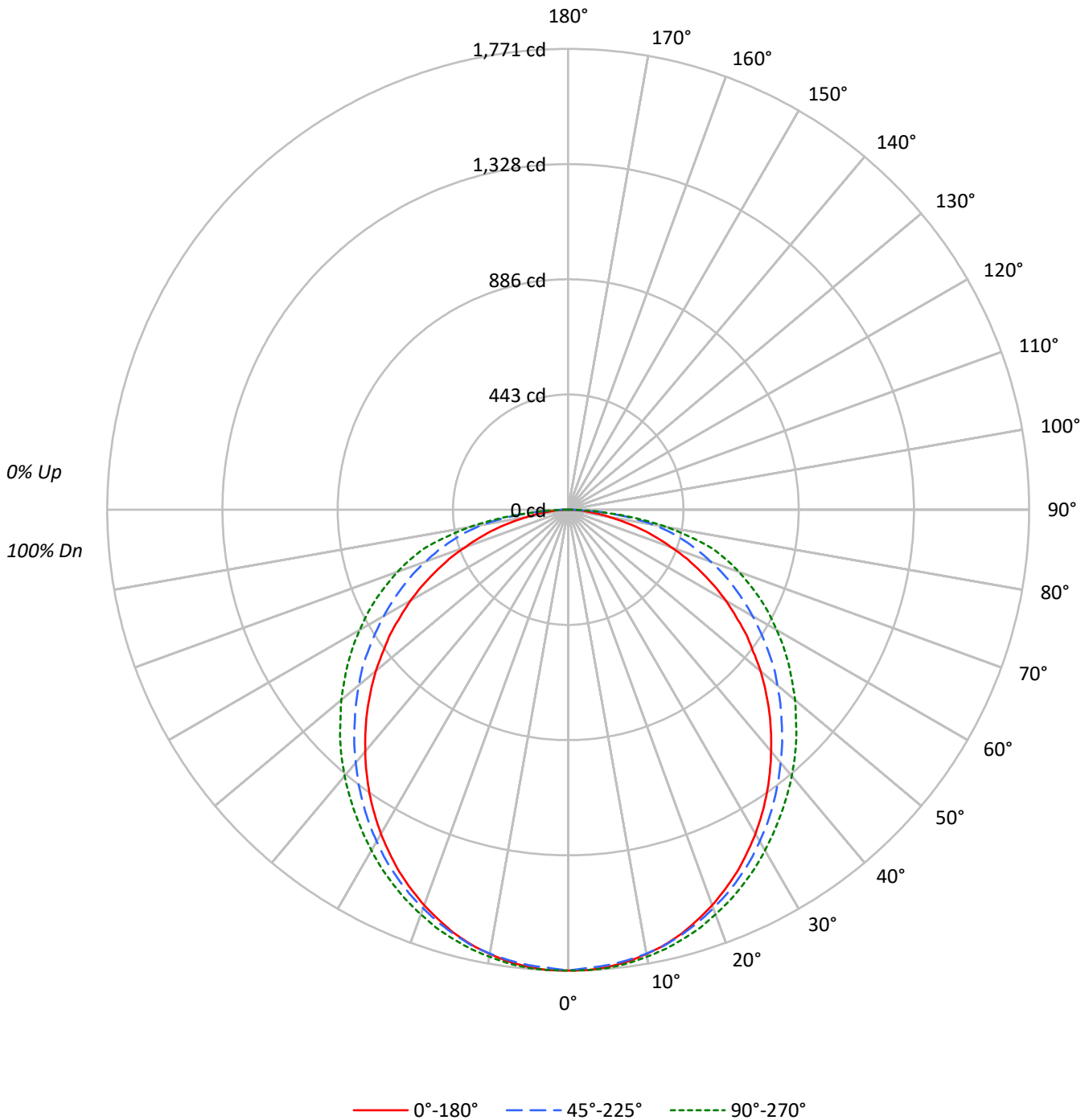
Input Watts (W): 45.291
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	108	103	98	94	105	100	96	92	96	93	89	92	89	87	89	86	84	82					82			
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67					67			
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	58	56					56			
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	50	48					48			
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41					41			
6	69	55	46	39	67	54	45	39	52	44	39	50	44	38	49	43	38	36					36			
7	64	50	41	35	62	49	40	34	47	40	34	46	39	34	45	38	34	32					32			
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28					28			
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25					25			
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23					23			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2383	2383	2383
5°	2383	2373	2387
10°	2369	2367	2384
15°	2349	2354	2379
20°	2317	2334	2369
25°	2279	2313	2360
30°	2235	2286	2349
35°	2186	2258	2342
40°	2131	2229	2347
45°	2077	2207	2358
50°	2019	2196	2381
55°	1958	2193	2424
60°	1881	2203	2487
65°	1782	2236	2595
70°	1655	2292	2742
75°	1510	2407	2975
80°	1241	2592	2974
85°	951	2391	2555



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.5	3.2
10°-20°	478.2	9.1
20°-30°	719.6	13.6
30°-40°	862.4	16.3
40°-50°	898.7	17.0
50°-60°	836.1	15.9
60°-70°	688.6	13.1
70°-80°	469.0	8.9
80°-90°	154.8	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°	1365.3	25.9
0°-40°	2227.6	42.2
0°-60°	3962.4	75.1
0°-90°	5274.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5274.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1771	1771	1771	1771	1771	
5°	1764	1764	1757	1766	1768	167
15°	1686	1688	1690	1706	1708	475
25°	1535	1542	1558	1584	1590	707
35°	1331	1347	1375	1412	1426	832
45°	1092	1114	1160	1218	1239	842
55°	834	863	935	1009	1033	744
65°	560	607	702	785	815	556
75°	290	356	463	546	572	306
85°	62	120	155	166	166	76
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1771.0	1771.0	1771.0	1771.0	1771.0
2.5°	1771.0	1771.0	1762.2	1771.0	1771.0
5°	1764.0	1764.0	1756.9	1765.7	1767.5
7.5°	1751.7	1753.4	1746.4	1756.9	1758.7
10°	1734.1	1735.8	1732.3	1742.9	1744.6
12.5°	1712.9	1714.7	1714.7	1727.0	1728.8
15°	1686.5	1688.3	1690.0	1705.9	1707.7
17.5°	1653.1	1658.4	1661.9	1681.2	1684.8
20°	1617.9	1623.1	1630.2	1651.3	1654.8
22.5°	1577.4	1584.4	1596.7	1619.6	1624.9
25°	1535.1	1542.2	1558.0	1584.4	1589.7
27.5°	1487.6	1498.2	1517.5	1545.7	1552.7
30°	1438.3	1448.9	1471.7	1501.7	1512.2
32.5°	1385.5	1399.6	1426.0	1459.4	1470.0
35°	1330.9	1346.8	1374.9	1411.9	1426.0
37.5°	1272.8	1290.4	1323.9	1364.4	1382.0
40°	1213.0	1234.1	1269.3	1316.8	1336.2
42.5°	1153.1	1172.5	1216.5	1267.5	1288.7
45°	1091.5	1114.4	1160.1	1218.2	1239.4
47.5°	1028.1	1051.0	1105.6	1167.2	1186.6
50°	964.7	987.6	1049.2	1114.4	1137.3
52.5°	896.1	926.0	996.4	1061.6	1084.4
55°	834.5	862.6	934.8	1008.7	1033.4
57.5°	764.0	797.5	876.7	954.2	980.6
60°	698.9	734.1	818.6	897.8	924.2
62.5°	632.0	670.7	760.5	841.5	871.4
65°	559.8	607.4	702.4	785.2	815.1
67.5°	494.7	544.0	644.3	728.8	755.2
70°	420.8	480.6	582.7	667.2	697.1
72.5°	357.4	417.2	524.6	607.4	637.3
75°	290.5	355.6	463.0	545.7	572.2
77.5°	223.6	295.8	403.1	466.5	475.3
80°	160.2	235.9	334.5	371.5	383.8
82.5°	112.7	181.3	246.5	271.1	278.2
85°	61.6	119.7	154.9	165.5	165.5
87.5°	26.4	51.1	61.6	63.4	65.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)