

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: P276124

Luminaire Tested: **24CZ2-75HE-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276124
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: 24CZ2-75HE-UNV-L82765-W2A1-U-3000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6732.7 lumens
Efficiency: N/A
Efficacy: 116.0 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

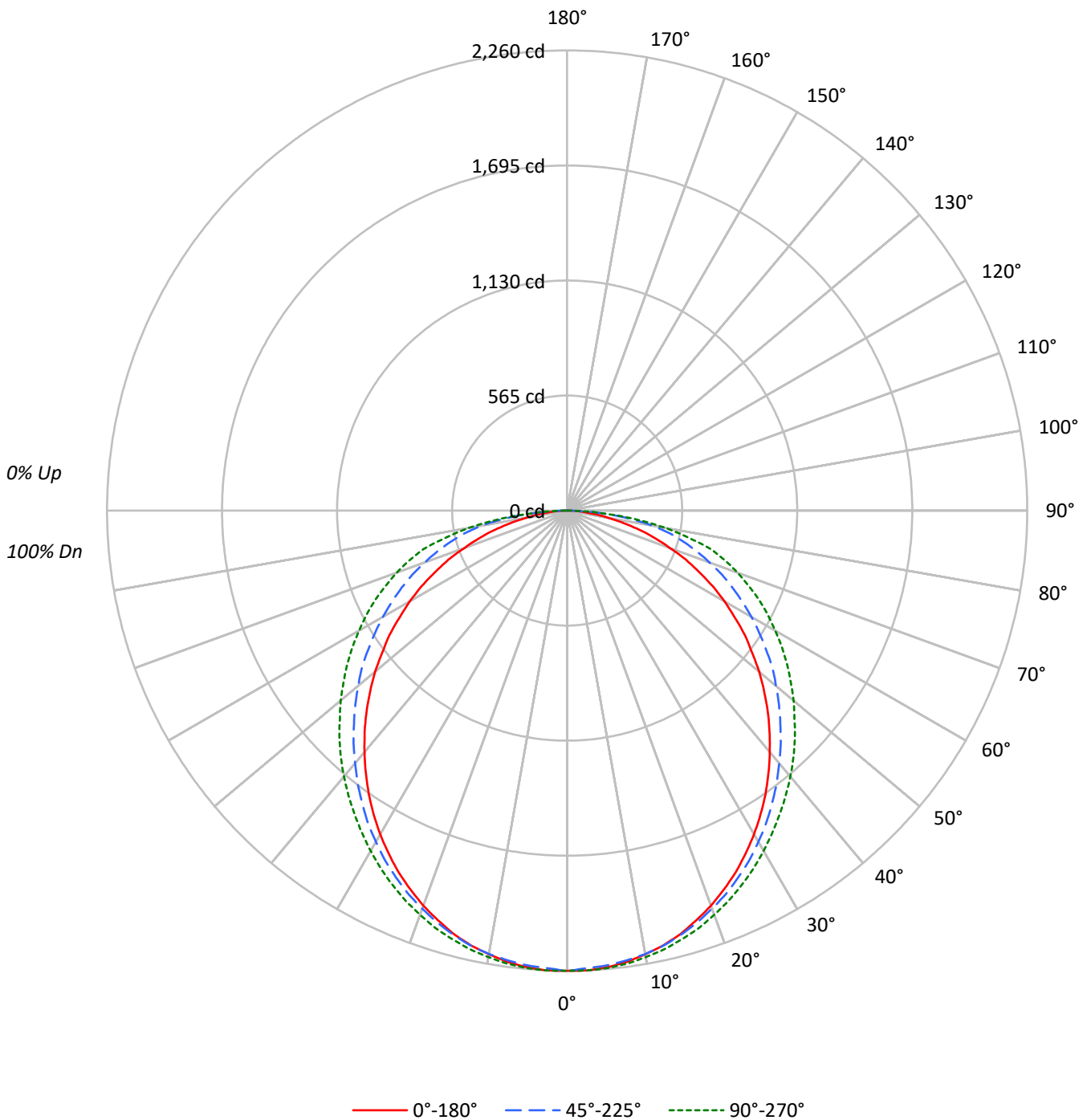
Input Watts (W): 58.032
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3041	3041	3041
5°	3041	3029	3047
10°	3024	3021	3042
15°	2998	3005	3036
20°	2957	2979	3024
25°	2909	2952	3012
30°	2852	2919	2999
35°	2790	2882	2990
40°	2719	2846	2996
45°	2651	2818	3010
50°	2578	2803	3039
55°	2499	2799	3094
60°	2401	2812	3175
65°	2275	2855	3312
70°	2113	2926	3500
75°	1928	3072	3797
80°	1585	3308	3795
85°	1213	3052	3260



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.8	3.2
10°-20°	610.3	9.1
20°-30°	918.5	13.6
30°-40°	1100.7	16.3
40°-50°	1147.0	17.0
50°-60°	1067.2	15.9
60°-70°	879.0	13.1
70°-80°	598.6	8.9
80°-90°	197.6	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°	1742.6	25.9
0°-40°	2843.3	42.2
0°-60°	5057.5	75.1
0°-90°	6732.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6732.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2260	2260	2260	2260	2260	
5°	2252	2252	2242	2254	2256	214
15°	2153	2155	2157	2177	2180	606
25°	1959	1968	1989	2022	2029	902
35°	1699	1719	1755	1802	1820	1062
45°	1393	1422	1481	1555	1582	1074
55°	1065	1101	1193	1288	1319	949
65°	714	775	897	1002	1040	709
75°	371	454	591	697	730	391
85°	79	153	198	211	211	97
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2260.5	2260.5	2260.5	2260.5	2260.5
2.5°	2260.5	2260.5	2249.2	2260.5	2260.5
5°	2251.5	2251.5	2242.5	2253.7	2256.0
7.5°	2235.8	2238.0	2229.0	2242.5	2244.7
10°	2213.3	2215.5	2211.0	2224.5	2226.8
12.5°	2186.3	2188.6	2188.6	2204.3	2206.5
15°	2152.6	2154.9	2157.1	2177.3	2179.6
17.5°	2109.9	2116.7	2121.2	2145.9	2150.4
20°	2065.0	2071.7	2080.7	2107.7	2112.2
22.5°	2013.3	2022.3	2038.0	2067.2	2074.0
25°	1959.4	1968.4	1988.6	2022.3	2029.0
27.5°	1898.7	1912.2	1936.9	1972.9	1981.8
30°	1835.8	1849.3	1878.5	1916.7	1930.2
32.5°	1768.4	1786.4	1820.1	1862.8	1876.2
35°	1698.7	1718.9	1754.9	1802.1	1820.1
37.5°	1624.6	1647.0	1689.7	1741.4	1763.9
40°	1548.2	1575.1	1620.1	1680.8	1705.5
42.5°	1471.8	1496.5	1552.7	1617.8	1644.8
45°	1393.1	1422.3	1480.8	1554.9	1581.9
47.5°	1312.2	1341.5	1411.1	1489.8	1514.5
50°	1231.4	1260.6	1339.2	1422.3	1451.6
52.5°	1143.7	1181.9	1271.8	1354.9	1384.1
55°	1065.1	1101.0	1193.2	1287.5	1319.0
57.5°	975.2	1017.9	1119.0	1217.9	1251.6
60°	892.1	937.0	1044.9	1146.0	1179.7
62.5°	806.7	856.1	970.7	1074.1	1112.3
65°	714.5	775.2	896.6	1002.2	1040.4
67.5°	631.4	694.3	822.4	930.3	964.0
70°	537.0	613.4	743.8	851.6	889.8
72.5°	456.1	532.5	669.6	775.2	813.4
75°	370.8	453.9	591.0	696.6	730.3
77.5°	285.4	377.5	514.6	595.5	606.7
80°	204.5	301.1	426.9	474.1	489.8
82.5°	143.8	231.4	314.6	346.0	355.0
85°	78.6	152.8	197.7	211.2	211.2
87.5°	33.7	65.2	78.6	80.9	83.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)