

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: P276968

Luminaire Tested: **24CZ2-75HE-RDP-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276968
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1808-918-19)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-75HE-RDP-UNV-L82765-W2A1-U-5000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4938.5 lumens
Efficiency: N/A
Efficacy: 82.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

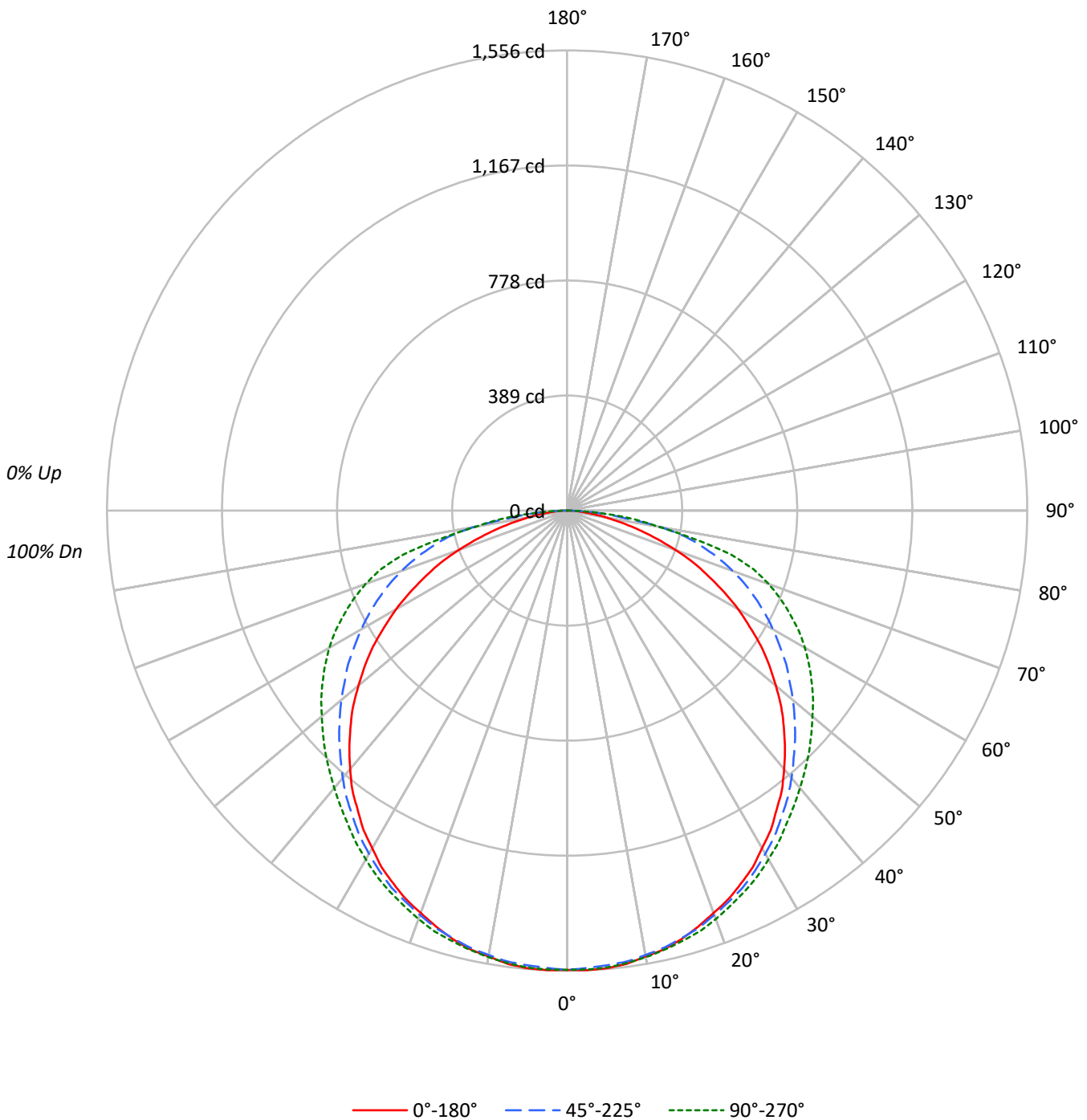
Input Watts (W): 59.799
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	88	86	84	82
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67
3	88	77	68	62	86	76	67	61	72	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2090	2090	2090
5°	2098	2084	2094
10°	2092	2085	2095
15°	2088	2085	2098
20°	2073	2083	2104
25°	2066	2087	2109
30°	2048	2082	2116
35°	2028	2076	2124
40°	2005	2074	2151
45°	1972	2074	2200
50°	1928	2087	2266
55°	1879	2120	2367
60°	1799	2162	2498
65°	1684	2238	2652
70°	1532	2341	2853
75°	1299	2470	2980
80°	1025	2486	2411
85°	756	1891	2118



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.3	3.0
10°-20°	424.0	8.6
20°-30°	648.4	13.1
30°-40°	792.6	16.0
40°-50°	844.8	17.1
50°-60°	807.7	16.4
60°-70°	684.2	13.9
70°-80°	459.9	9.3
80°-90°	129.7	2.6
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°	1219.7	24.7
0°-40°	2012.3	40.7
0°-60°	3664.7	74.2
0°-90°	4938.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4938.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1553	1553	1553	1553	1553	
5°	1553	1551	1543	1551	1551	148
15°	1499	1499	1497	1509	1506	423
25°	1391	1396	1406	1418	1421	641
35°	1235	1244	1264	1288	1293	773
45°	1036	1053	1090	1137	1156	799
55°	801	830	904	975	1009	713
65°	529	583	703	796	833	525
75°	250	340	475	556	573	268
85°	49	100	122	132	137	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1553.0	1553.0	1553.0	1553.0	1553.0
2.5°	1555.5	1555.5	1548.1	1553.0	1553.0
5°	1553.0	1550.6	1543.2	1550.6	1550.6
7.5°	1545.7	1543.2	1538.3	1545.7	1543.2
10°	1531.0	1531.0	1526.1	1533.4	1533.4
12.5°	1518.7	1516.3	1513.8	1523.6	1521.2
15°	1499.1	1499.1	1496.7	1508.9	1506.5
17.5°	1474.6	1477.1	1479.5	1489.3	1491.8
20°	1447.7	1452.6	1455.0	1469.7	1469.7
22.5°	1423.2	1425.6	1430.5	1445.2	1445.2
25°	1391.4	1396.3	1406.1	1418.3	1420.8
27.5°	1359.5	1362.0	1374.2	1391.4	1393.8
30°	1317.9	1325.2	1339.9	1359.5	1362.0
32.5°	1281.1	1288.5	1305.6	1325.2	1330.1
35°	1234.6	1244.4	1264.0	1288.5	1293.4
37.5°	1192.9	1200.3	1224.8	1251.7	1259.1
40°	1141.5	1156.2	1180.7	1212.5	1224.8
42.5°	1090.1	1104.8	1134.2	1175.8	1190.5
45°	1036.2	1053.3	1090.1	1136.6	1156.2
47.5°	982.3	1001.9	1043.5	1097.4	1119.5
50°	921.0	945.5	997.0	1058.2	1082.7
52.5°	862.2	891.6	948.0	1016.6	1048.4
55°	801.0	830.4	903.9	974.9	1009.2
57.5°	732.4	771.6	852.5	933.3	970.0
60°	668.7	705.5	803.5	891.6	928.4
62.5°	600.1	649.1	754.5	847.6	884.3
65°	529.1	583.0	703.0	796.1	832.9
67.5°	465.4	524.2	651.6	744.7	781.4
70°	389.5	463.0	595.2	688.3	725.1
72.5°	318.4	399.3	536.5	627.1	661.4
75°	249.9	340.5	475.2	556.1	573.2
77.5°	186.2	281.7	411.5	445.8	433.6
80°	132.3	225.4	320.9	303.7	311.1
82.5°	85.7	171.5	198.4	225.4	232.7
85°	49.0	100.4	122.5	132.3	137.2
87.5°	22.0	36.7	49.0	49.0	46.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)