

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: P260751

Luminaire Tested: **24CZ-LD5-55-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260751
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25697)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-55-UNV-L82765-W2A1-U-4500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5638.0 lumens
Efficiency: N/A
Efficacy: 138.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.25 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

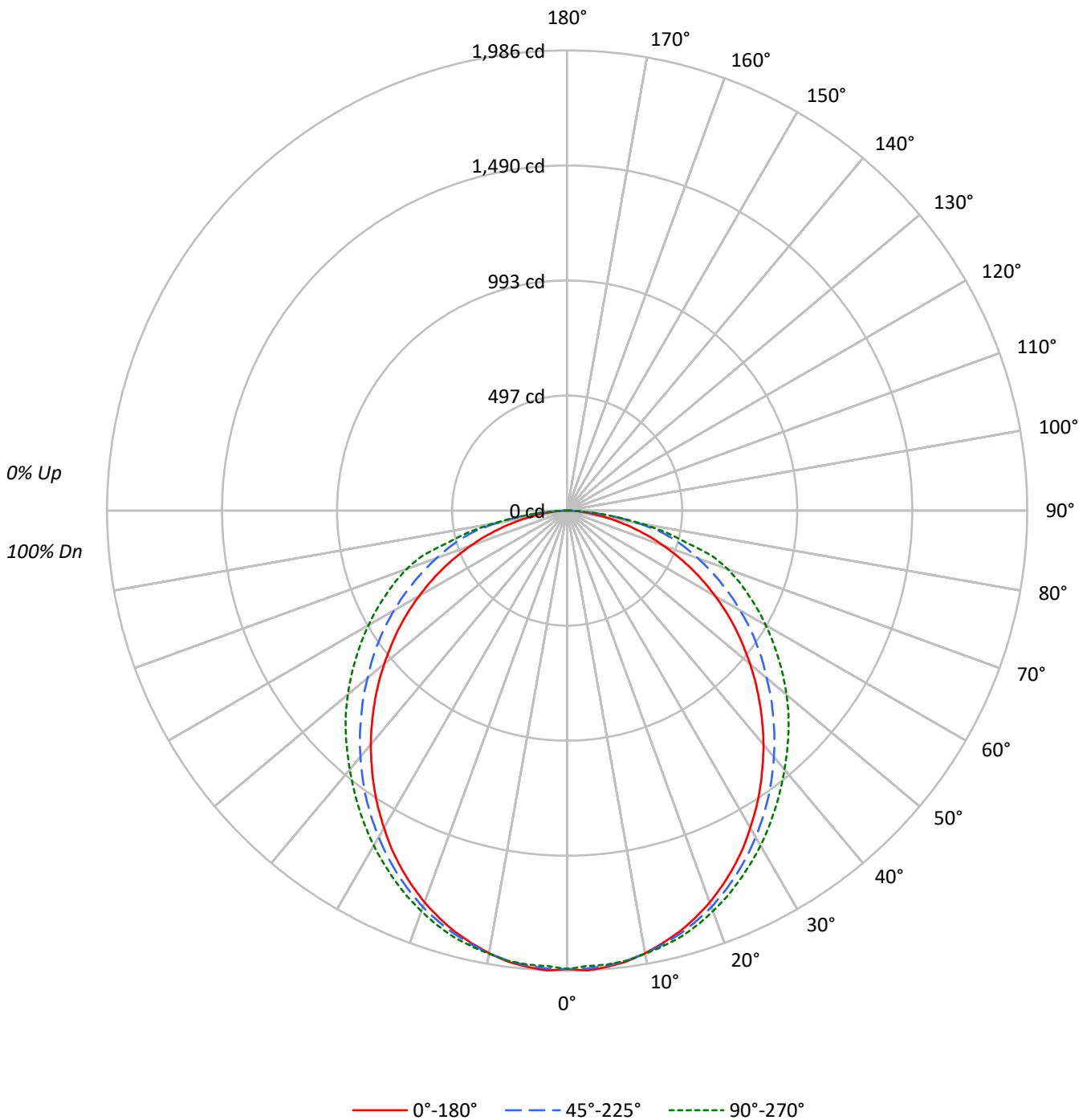
Input Watts (W): 40.827
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	95	88	81	76	84	79	74	81	76	72	78	74	71	68																												
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57																												
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49																												
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42																												
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37																												
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	32																												
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29																												
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26																												
10	52	39	31	26	51	39	31	26	38	31	26	37	30	25	36	30	25	24																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2662	2662	2662
5°	2670	2662	2657
10°	2651	2651	2653
15°	2619	2632	2651
20°	2576	2607	2634
25°	2522	2571	2614
30°	2456	2528	2594
35°	2388	2486	2575
40°	2316	2438	2563
45°	2237	2391	2571
50°	2158	2352	2586
55°	2078	2337	2613
60°	1984	2322	2665
65°	1881	2323	2753
70°	1739	2362	2901
75°	1555	2469	2760
80°	1301	2363	2528
85°	983	1819	1729



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.0	3.3
10°-20°	532.2	9.4
20°-30°	795.6	14.1
30°-40°	943.8	16.7
40°-50°	971.4	17.2
50°-60°	891.1	15.8
60°-70°	720.5	12.8
70°-80°	467.6	8.3
80°-90°	128.9	2.3
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°	1514.7	26.9
0°-40°	2458.4	43.6
0°-60°	4320.9	76.6
0°-90°	5638.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5638.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1979	1979	1979	1979	1979	
5°	1977	1963	1971	1969	1967	188
15°	1880	1872	1890	1898	1903	530
25°	1699	1701	1732	1747	1760	782
35°	1454	1465	1513	1546	1568	909
45°	1176	1195	1257	1316	1351	907
55°	886	913	996	1077	1114	792
65°	591	625	730	826	865	584
75°	299	355	475	531	531	318
85°	64	108	118	114	112	78
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1978.6	1978.6	1978.6	1978.6	1978.6
2.5°	1986.4	1970.9	1978.6	1976.7	1967.1
5°	1976.7	1963.2	1970.9	1969.0	1967.1
7.5°	1963.2	1949.7	1959.3	1957.4	1959.3
10°	1940.0	1928.5	1940.0	1942.0	1942.0
12.5°	1911.1	1901.4	1916.9	1920.7	1924.6
15°	1880.2	1872.5	1889.8	1897.6	1903.4
17.5°	1841.6	1835.8	1857.0	1866.7	1874.4
20°	1799.1	1797.2	1820.4	1830.0	1839.7
22.5°	1750.9	1750.9	1777.9	1789.5	1803.0
25°	1698.7	1700.7	1731.6	1747.0	1760.5
27.5°	1642.8	1644.7	1681.4	1700.7	1716.1
30°	1581.0	1588.7	1627.3	1652.4	1669.8
32.5°	1519.2	1528.9	1571.3	1600.3	1619.6
35°	1453.6	1465.2	1513.4	1546.2	1567.5
37.5°	1386.0	1399.5	1451.6	1488.3	1513.4
40°	1318.5	1333.9	1387.9	1430.4	1459.4
42.5°	1247.0	1264.4	1324.2	1374.4	1405.3
45°	1175.6	1194.9	1256.7	1316.5	1351.3
47.5°	1104.2	1127.3	1193.0	1258.6	1295.3
50°	1030.8	1054.0	1123.5	1198.8	1235.4
52.5°	957.5	984.5	1061.7	1138.9	1175.6
55°	886.0	913.1	996.1	1077.2	1113.8
57.5°	812.7	839.7	930.4	1015.4	1052.1
60°	737.4	768.3	862.9	949.7	990.3
62.5°	664.1	696.9	797.2	889.9	928.5
65°	590.7	625.4	729.7	826.2	864.8
67.5°	515.4	556.0	664.1	762.5	803.0
70°	442.1	486.5	600.3	698.8	737.4
72.5°	370.6	418.9	536.6	637.0	660.2
75°	299.2	355.2	474.9	530.9	530.9
77.5°	231.6	293.4	405.4	426.6	438.2
80°	167.9	235.5	305.0	330.1	326.2
82.5°	112.0	179.5	218.1	218.1	212.3
85°	63.7	108.1	117.8	113.9	112.0
87.5°	27.0	40.5	36.7	29.0	25.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)