

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: P261182

Luminaire Tested: **24CZ-LD5-60-S-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261182
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25694)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-60-S-UNV-L82765-W2A1-U-5500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (336) 80 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6397.0 lumens
Efficiency: N/A
Efficacy: 140.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

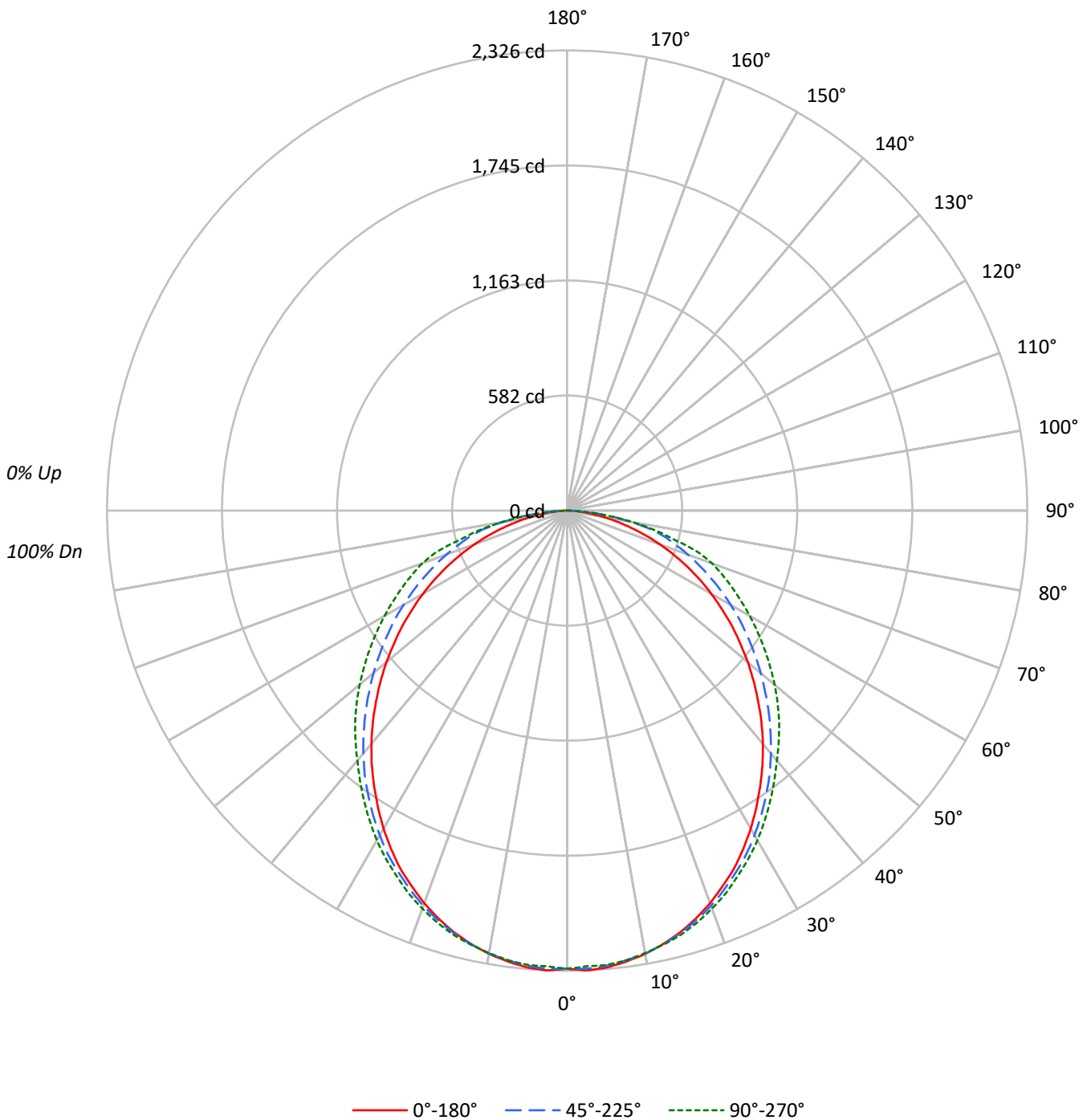
Input Watts (W): 45.477
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50
5	76	63	53	47	73	61	53	47	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3116	3116	3116
5°	3131	3119	3113
10°	3109	3106	3103
15°	3075	3081	3092
20°	3023	3045	3066
25°	2964	2996	3027
30°	2884	2943	2990
35°	2793	2881	2940
40°	2703	2815	2897
45°	2600	2742	2884
50°	2495	2673	2865
55°	2387	2616	2856
60°	2263	2572	2870
65°	2128	2541	2927
70°	1959	2554	3065
75°	1737	2645	2855
80°	1451	2507	2572
85°	1084	2004	1840



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.0	3.4
10°-20°	622.7	9.7
20°-30°	928.0	14.5
30°-40°	1092.4	17.1
40°-50°	1110.1	17.4
50°-60°	998.1	15.6
60°-70°	788.5	12.3
70°-80°	500.2	7.8
80°-90°	138.1	2.2
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°	1769.6	27.7
0°-40°	2862.0	44.7
0°-60°	4970.2	77.7
0°-90°	6397.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6397.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2316	2316	2316	2316	2316	
5°	2318	2299	2309	2305	2305	220
15°	2207	2197	2212	2218	2220	622
25°	1997	1994	2018	2031	2039	918
35°	1701	1711	1754	1773	1790	1064
45°	1366	1386	1441	1484	1516	1054
55°	1017	1043	1115	1188	1218	909
65°	668	702	798	886	920	662
75°	334	392	509	553	549	356
85°	70	121	130	119	119	86
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2315.8	2315.8	2315.8	2315.8	2315.8
2.5°	2326.5	2309.4	2318.0	2313.7	2305.2
5°	2318.0	2298.8	2309.4	2305.2	2305.2
7.5°	2298.8	2283.9	2292.4	2290.3	2292.4
10°	2275.4	2260.5	2273.3	2273.3	2271.1
12.5°	2243.5	2230.7	2245.6	2245.6	2247.7
15°	2207.3	2196.6	2211.5	2217.9	2220.0
17.5°	2162.6	2151.9	2171.1	2177.5	2183.9
20°	2111.5	2107.2	2126.4	2132.8	2141.3
22.5°	2054.0	2054.0	2073.2	2081.7	2094.5
25°	1996.6	1994.4	2017.8	2030.6	2039.1
27.5°	1928.4	1930.6	1960.4	1973.1	1983.8
30°	1856.1	1860.3	1894.4	1909.3	1924.2
32.5°	1779.4	1788.0	1826.3	1843.3	1858.2
35°	1700.7	1711.3	1753.9	1773.1	1790.1
37.5°	1621.9	1636.8	1681.5	1700.7	1719.8
40°	1538.9	1551.7	1602.8	1626.2	1649.6
42.5°	1453.8	1470.8	1521.9	1555.9	1583.6
45°	1366.5	1385.7	1441.0	1483.6	1515.5
47.5°	1279.2	1304.8	1358.0	1415.5	1443.1
50°	1192.0	1217.5	1277.1	1341.0	1368.6
52.5°	1102.6	1128.1	1196.2	1262.2	1292.0
55°	1017.4	1043.0	1115.3	1187.7	1217.5
57.5°	928.0	955.7	1036.6	1111.1	1140.9
60°	840.8	868.4	955.7	1034.5	1066.4
62.5°	755.6	785.4	877.0	960.0	991.9
65°	668.4	702.4	798.2	885.5	919.5
67.5°	583.2	621.5	721.6	813.1	849.3
70°	498.1	542.8	649.2	742.9	779.0
72.5°	415.1	464.0	576.8	670.5	689.6
75°	334.2	391.6	508.7	553.4	549.2
77.5°	257.6	321.4	432.1	440.6	453.4
80°	187.3	257.6	323.5	340.6	332.0
82.5°	123.5	193.7	232.0	223.5	221.4
85°	70.2	121.3	129.8	119.2	119.2
87.5°	29.8	49.0	42.6	31.9	29.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)