

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: P260761

Luminaire Tested: **24CZ-LD5-60-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260761
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-LD5-60-UNV-L82765-W2A1-U-5000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6211.0 lumens
Efficiency: N/A
Efficacy: 137.1 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

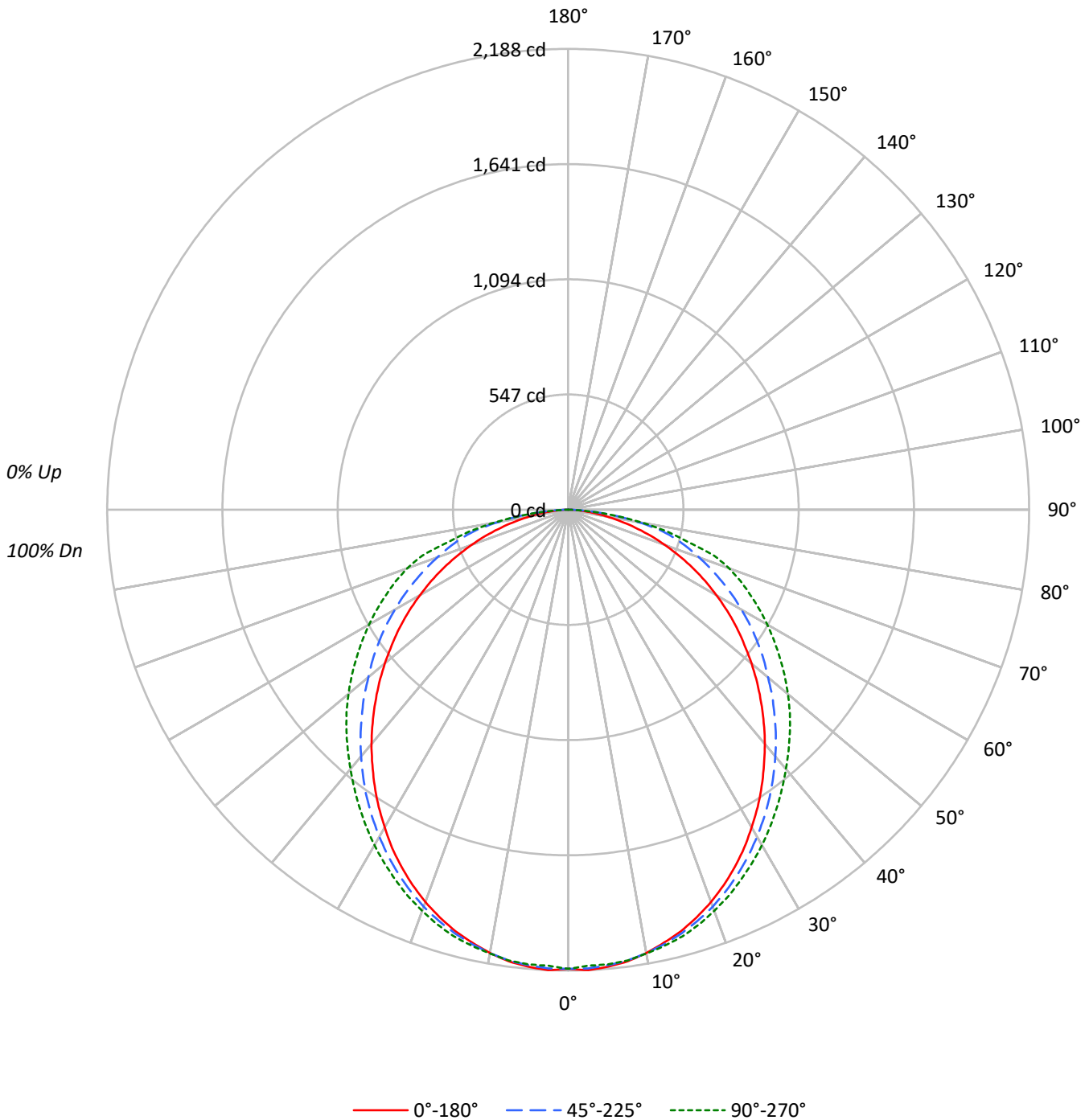
Input Watts (W): 45.291
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2933	2933	2933
5°	2941	2932	2927
10°	2920	2920	2923
15°	2885	2900	2921
20°	2838	2871	2902
25°	2778	2832	2879
30°	2706	2785	2858
35°	2630	2738	2836
40°	2551	2686	2824
45°	2464	2634	2833
50°	2377	2591	2849
55°	2290	2574	2878
60°	2186	2558	2936
65°	2072	2559	3033
70°	1916	2602	3196
75°	1713	2719	3040
80°	1433	2603	2785
85°	1084	2002	1903



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.0	3.3
10°-20°	586.2	9.4
20°-30°	876.4	14.1
30°-40°	1039.7	16.7
40°-50°	1070.1	17.2
50°-60°	981.7	15.8
60°-70°	793.7	12.8
70°-80°	515.1	8.3
80°-90°	142.0	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°	1668.6	26.9
0°-40°	2708.3	43.6
0°-60°	4760.1	76.6
0°-90°	6211.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6211.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2180	2180	2180	2180	2180	
5°	2178	2163	2171	2169	2167	207
15°	2071	2063	2082	2090	2097	583
25°	1871	1874	1908	1924	1939	861
35°	1601	1614	1667	1703	1727	1001
45°	1295	1316	1384	1450	1489	999
55°	976	1006	1097	1187	1227	872
65°	651	689	804	910	953	643
75°	330	391	523	585	585	350
85°	70	119	130	126	123	86
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2179.7	2179.7	2179.7	2179.7	2179.7
2.5°	2188.2	2171.2	2179.7	2177.6	2167.0
5°	2177.6	2162.7	2171.2	2169.1	2167.0
7.5°	2162.7	2147.8	2158.5	2156.3	2158.5
10°	2137.2	2124.4	2137.2	2139.3	2139.3
12.5°	2105.3	2094.7	2111.7	2115.9	2120.2
15°	2071.3	2062.8	2081.9	2090.4	2096.8
17.5°	2028.8	2022.4	2045.8	2056.4	2064.9
20°	1982.0	1979.8	2005.4	2016.0	2026.6
22.5°	1928.8	1928.8	1958.6	1971.3	1986.2
25°	1871.4	1873.5	1907.5	1924.5	1939.4
27.5°	1809.7	1811.8	1852.2	1873.5	1890.5
30°	1741.7	1750.2	1792.7	1820.3	1839.5
32.5°	1673.6	1684.2	1731.0	1762.9	1784.2
35°	1601.3	1614.1	1667.2	1703.4	1726.8
37.5°	1526.9	1541.8	1599.2	1639.6	1667.2
40°	1452.4	1469.5	1529.0	1575.8	1607.7
42.5°	1373.8	1392.9	1458.8	1514.1	1548.1
45°	1295.1	1316.3	1384.4	1450.3	1488.6
47.5°	1216.4	1241.9	1314.2	1386.5	1426.9
50°	1135.6	1161.1	1237.7	1320.6	1361.0
52.5°	1054.8	1084.6	1169.6	1254.7	1295.1
55°	976.1	1005.9	1097.3	1186.6	1227.0
57.5°	895.3	925.1	1025.0	1118.6	1159.0
60°	812.4	846.4	950.6	1046.3	1090.9
62.5°	731.5	767.7	878.3	980.4	1022.9
65°	650.7	689.0	803.8	910.2	952.7
67.5°	567.8	612.5	731.5	840.0	884.7
70°	487.0	535.9	661.4	769.8	812.4
72.5°	408.3	461.5	591.2	701.8	727.3
75°	329.6	391.3	523.1	584.8	584.8
77.5°	255.2	323.2	446.6	470.0	482.7
80°	185.0	259.4	336.0	363.6	359.4
82.5°	123.3	197.8	240.3	240.3	233.9
85°	70.2	119.1	129.7	125.5	123.3
87.5°	29.8	44.7	40.4	31.9	27.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)