

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: P260771

Luminaire Tested: **24CZ-LD5-65-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260771
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-LD5-65-UNV-L82765-W2A1-U-5500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6796.0 lumens
Efficiency: N/A
Efficacy: 135.1 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

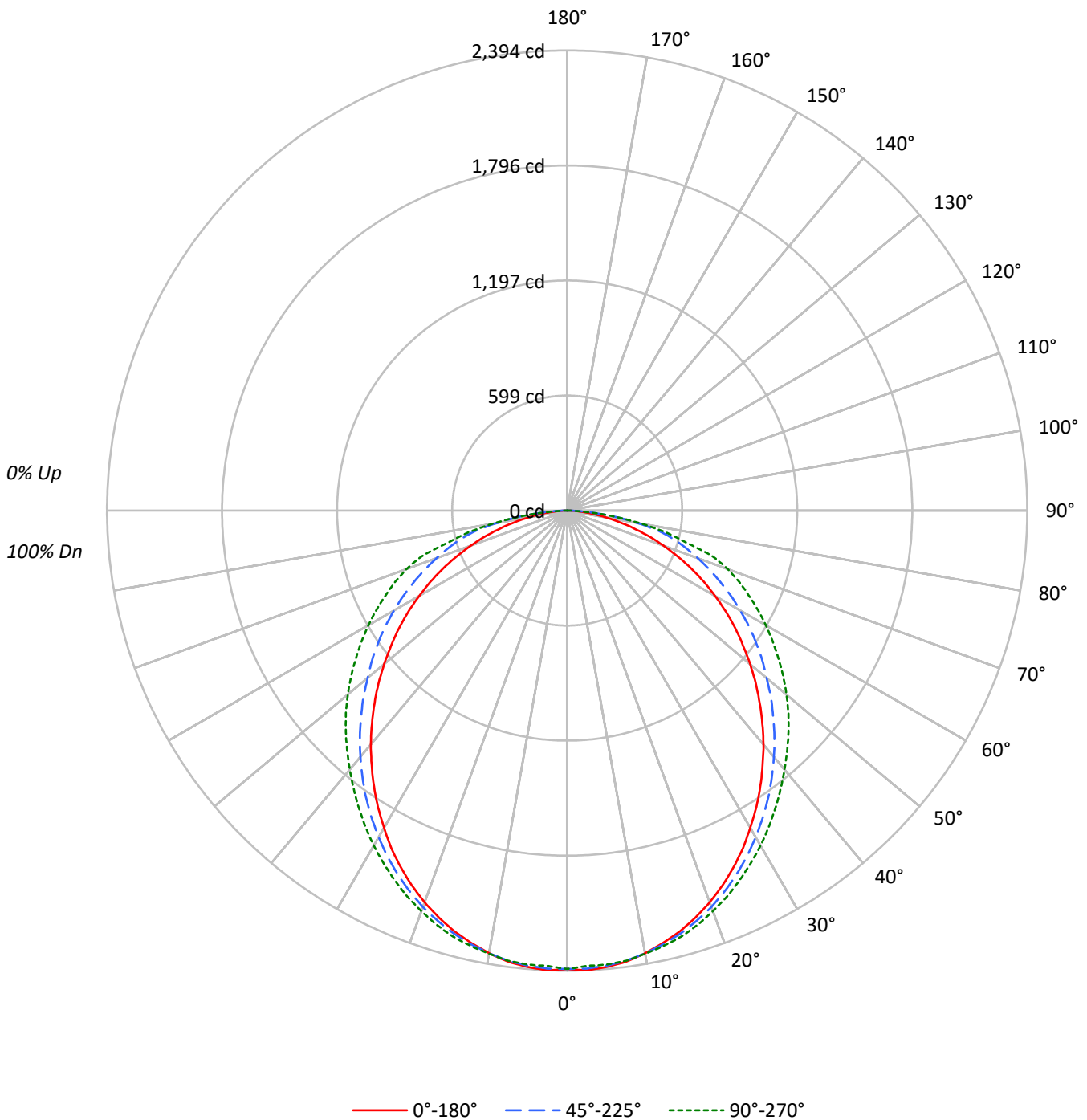
Input Watts (W): 50.313
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3209	3209	3209
5°	3218	3209	3202
10°	3195	3195	3198
15°	3157	3173	3196
20°	3105	3142	3175
25°	3040	3099	3150
30°	2961	3048	3127
35°	2878	2996	3103
40°	2791	2938	3090
45°	2696	2882	3099
50°	2601	2835	3117
55°	2505	2817	3149
60°	2392	2799	3212
65°	2267	2800	3319
70°	2096	2847	3497
75°	1875	2976	3327
80°	1568	2848	3047
85°	1186	2191	2084



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.4	3.3
10°-20°	641.5	9.4
20°-30°	958.9	14.1
30°-40°	1137.6	16.7
40°-50°	1170.9	17.2
50°-60°	1074.1	15.8
60°-70°	868.5	12.8
70°-80°	563.7	8.3
80°-90°	155.4	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°	1825.8	26.9
0°-40°	2963.4	43.6
0°-60°	5208.4	76.6
0°-90°	6796.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6796.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2385	2385	2385	2385	2385	
5°	2383	2366	2376	2373	2371	226
15°	2266	2257	2278	2287	2294	638
25°	2048	2050	2087	2106	2122	942
35°	1752	1766	1824	1864	1889	1096
45°	1417	1440	1515	1587	1629	1094
55°	1068	1101	1201	1298	1343	954
65°	712	754	880	996	1042	704
75°	361	428	572	640	640	383
85°	77	130	142	137	135	94
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2385.0	2385.0	2385.0	2385.0	2385.0
2.5°	2394.4	2375.7	2385.0	2382.7	2371.1
5°	2382.7	2366.4	2375.7	2373.4	2371.1
7.5°	2366.4	2350.1	2361.8	2359.4	2361.8
10°	2338.5	2324.5	2338.5	2340.8	2340.8
12.5°	2303.6	2292.0	2310.6	2315.2	2319.9
15°	2266.4	2257.1	2278.0	2287.3	2294.3
17.5°	2219.8	2212.9	2238.4	2250.1	2259.4
20°	2168.6	2166.3	2194.2	2205.9	2217.5
22.5°	2110.5	2110.5	2143.0	2157.0	2173.3
25°	2047.6	2050.0	2087.2	2105.8	2122.1
27.5°	1980.2	1982.5	2026.7	2050.0	2068.6
30°	1905.7	1915.0	1961.6	1991.8	2012.7
32.5°	1831.2	1842.9	1894.1	1929.0	1952.2
35°	1752.1	1766.1	1824.3	1863.8	1889.4
37.5°	1670.7	1687.0	1749.8	1794.0	1824.3
40°	1589.3	1607.9	1673.0	1724.2	1759.1
42.5°	1503.2	1524.1	1596.2	1656.7	1694.0
45°	1417.1	1440.3	1514.8	1586.9	1628.8
47.5°	1331.0	1358.9	1438.0	1517.1	1561.3
50°	1242.5	1270.5	1354.2	1445.0	1489.2
52.5°	1154.1	1186.7	1279.8	1372.9	1417.1
55°	1068.0	1100.6	1200.7	1298.4	1342.6
57.5°	979.6	1012.2	1121.6	1223.9	1268.1
60°	888.9	926.1	1040.1	1144.8	1193.7
62.5°	800.4	840.0	961.0	1072.7	1119.2
65°	712.0	753.9	879.6	995.9	1042.4
67.5°	621.3	670.1	800.4	919.1	968.0
70°	532.9	586.4	723.7	842.3	888.9
72.5°	446.8	504.9	646.9	767.9	795.8
75°	360.7	428.1	572.4	639.9	639.9
77.5°	279.2	353.7	488.6	514.2	528.2
80°	202.4	283.9	367.6	397.9	393.2
82.5°	135.0	216.4	262.9	262.9	256.0
85°	76.8	130.3	141.9	137.3	135.0
87.5°	32.6	48.9	44.2	34.9	30.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)