

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: P260768

Luminaire Tested: **24CZ-LD5-65-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260768
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-4000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6524.0 lumens
Efficiency: N/A
Efficacy: 131.9 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

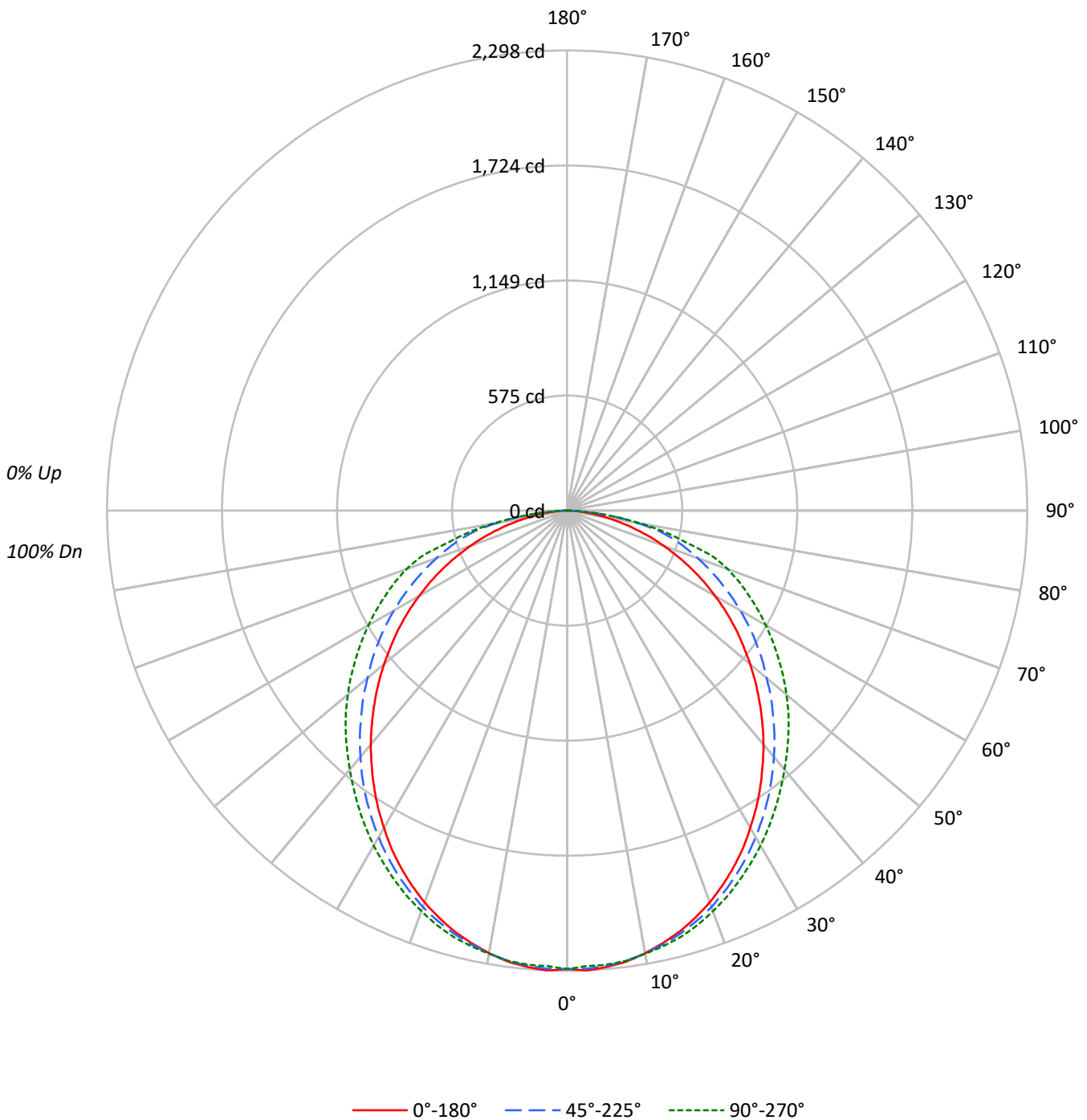
Input Watts (W): 49.476
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3081	3081	3081
5°	3089	3080	3074
10°	3067	3067	3070
15°	3031	3046	3068
20°	2981	3016	3048
25°	2918	2975	3024
30°	2842	2925	3002
35°	2763	2877	2979
40°	2680	2821	2966
45°	2588	2767	2975
50°	2497	2721	2992
55°	2405	2704	3023
60°	2296	2687	3084
65°	2176	2688	3186
70°	2012	2733	3357
75°	1800	2857	3193
80°	1506	2734	2925
85°	1138	2104	2001



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.4	3.3
10°-20°	615.8	9.4
20°-30°	920.6	14.1
30°-40°	1092.1	16.7
40°-50°	1124.0	17.2
50°-60°	1031.2	15.8
60°-70°	833.7	12.8
70°-80°	541.1	8.3
80°-90°	149.2	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°	1752.7	26.9
0°-40°	2844.8	43.6
0°-60°	5000.0	76.6
0°-90°	6524.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6524.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2290	2290	2290	2290	2290	
5°	2287	2272	2281	2278	2276	217
15°	2176	2167	2187	2196	2202	613
25°	1966	1968	2004	2022	2037	905
35°	1682	1695	1751	1789	1814	1052
45°	1360	1383	1454	1523	1564	1050
55°	1025	1057	1153	1246	1289	916
65°	684	724	844	956	1001	675
75°	346	411	550	614	614	368
85°	74	125	136	132	130	90
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2289.6	2289.6	2289.6	2289.6	2289.6
2.5°	2298.5	2280.6	2289.6	2287.4	2276.2
5°	2287.4	2271.7	2280.6	2278.4	2276.2
7.5°	2271.7	2256.1	2267.2	2265.0	2267.2
10°	2244.9	2231.5	2244.9	2247.1	2247.1
12.5°	2211.4	2200.2	2218.1	2222.6	2227.0
15°	2175.7	2166.7	2186.8	2195.8	2202.5
17.5°	2131.0	2124.3	2148.9	2160.0	2169.0
20°	2081.8	2079.6	2106.4	2117.6	2128.8
22.5°	2026.0	2026.0	2057.3	2070.7	2086.3
25°	1965.7	1967.9	2003.7	2021.5	2037.2
27.5°	1900.9	1903.1	1945.6	1967.9	1985.8
30°	1829.4	1838.4	1883.0	1912.1	1932.2
32.5°	1758.0	1769.1	1818.3	1851.8	1874.1
35°	1682.0	1695.4	1751.3	1789.2	1813.8
37.5°	1603.8	1619.5	1679.8	1722.2	1751.3
40°	1525.6	1543.5	1606.1	1655.2	1688.7
42.5°	1443.0	1463.1	1532.3	1590.4	1626.2
45°	1360.3	1382.7	1454.2	1523.4	1563.6
47.5°	1277.7	1304.5	1380.5	1456.4	1498.8
50°	1192.8	1219.6	1300.0	1387.2	1429.6
52.5°	1107.9	1139.2	1228.6	1317.9	1360.3
55°	1025.3	1056.6	1152.6	1246.4	1288.9
57.5°	940.4	971.7	1076.7	1174.9	1217.4
60°	853.3	889.0	998.5	1099.0	1145.9
62.5°	768.4	806.4	922.5	1029.8	1074.4
65°	683.5	723.7	844.4	956.0	1000.7
67.5°	596.4	643.3	768.4	882.3	929.2
70°	511.5	562.9	694.7	808.6	853.3
72.5°	428.9	484.7	621.0	737.1	763.9
75°	346.2	411.0	549.5	614.3	614.3
77.5°	268.0	339.5	469.1	493.7	507.1
80°	194.3	272.5	352.9	382.0	377.5
82.5°	129.6	207.7	252.4	252.4	245.7
85°	73.7	125.1	136.3	131.8	129.6
87.5°	31.3	46.9	42.4	33.5	29.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)