

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: P260770

Luminaire Tested: **24CZ-LD5-65-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260770
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-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: 6730.0 lumens
Efficiency: N/A
Efficacy: 134.5 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

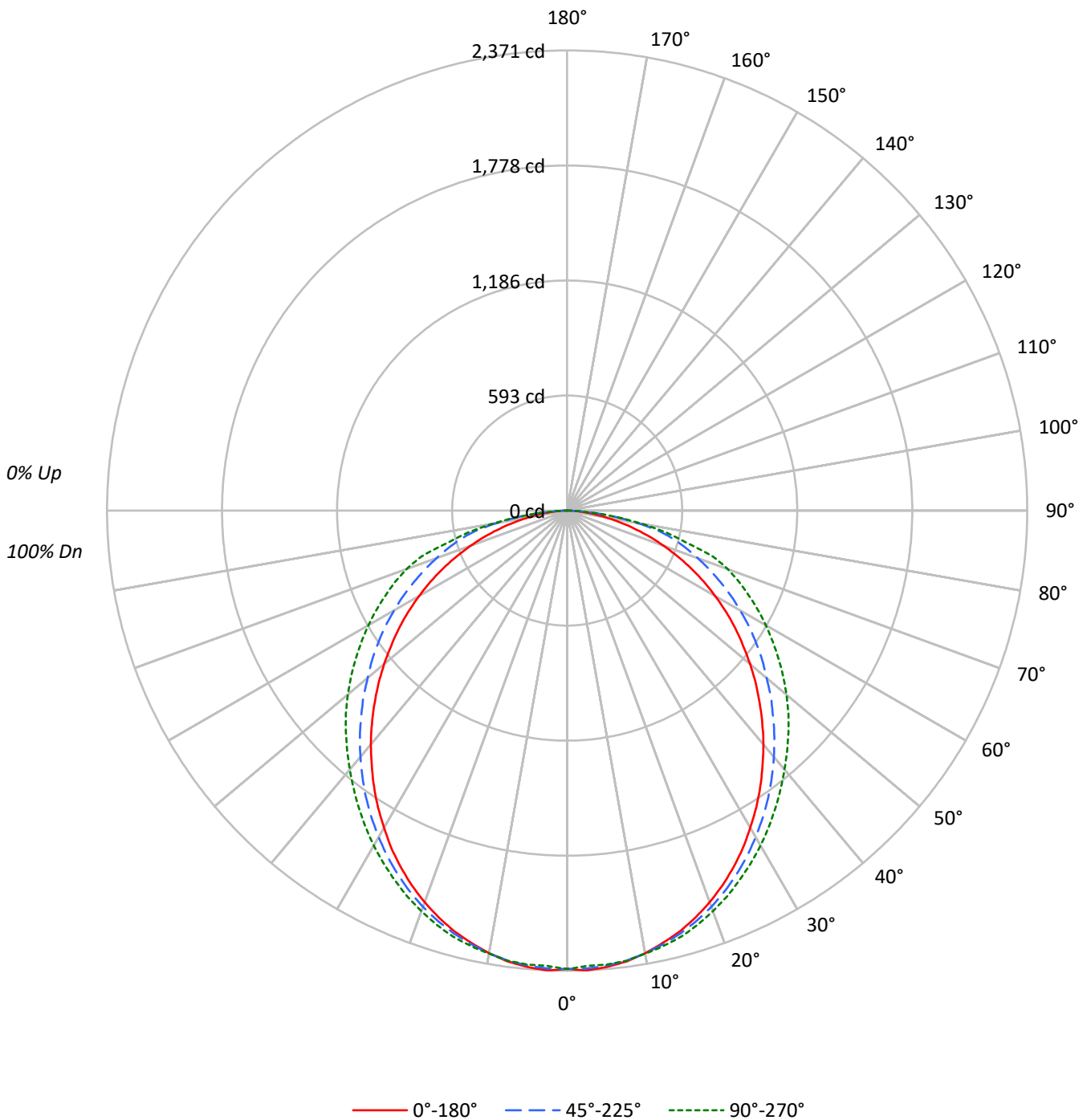
Input Watts (W): 50.034
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3178	3178	3178
5°	3187	3178	3171
10°	3164	3164	3167
15°	3126	3142	3165
20°	3075	3111	3144
25°	3010	3068	3120
30°	2932	3018	3097
35°	2850	2967	3073
40°	2764	2910	3060
45°	2670	2854	3069
50°	2576	2807	3087
55°	2481	2789	3119
60°	2369	2772	3181
65°	2245	2773	3287
70°	2076	2819	3463
75°	1857	2947	3294
80°	1554	2821	3017
85°	1173	2171	2062



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.2	3.3
10°-20°	635.2	9.4
20°-30°	949.6	14.1
30°-40°	1126.6	16.7
40°-50°	1159.5	17.2
50°-60°	1063.7	15.8
60°-70°	860.1	12.8
70°-80°	558.2	8.3
80°-90°	153.9	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°	1808.0	26.9
0°-40°	2934.6	43.6
0°-60°	5157.9	76.6
0°-90°	6730.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6730.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2362	2362	2362	2362	2362	
5°	2360	2343	2353	2350	2348	224
15°	2244	2235	2256	2265	2272	632
25°	2028	2030	2067	2085	2102	933
35°	1735	1749	1807	1846	1871	1085
45°	1403	1426	1500	1572	1613	1083
55°	1058	1090	1189	1286	1330	945
65°	705	747	871	986	1032	697
75°	357	424	567	634	634	380
85°	76	129	141	136	134	93
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2361.9	2361.9	2361.9	2361.9	2361.9
2.5°	2371.1	2352.7	2361.9	2359.6	2348.1
5°	2359.6	2343.4	2352.7	2350.4	2348.1
7.5°	2343.4	2327.3	2338.8	2336.5	2338.8
10°	2315.8	2302.0	2315.8	2318.1	2318.1
12.5°	2281.2	2269.7	2288.1	2292.8	2297.4
15°	2244.4	2235.1	2255.9	2265.1	2272.0
17.5°	2198.3	2191.4	2216.7	2228.2	2237.4
20°	2147.6	2145.3	2172.9	2184.5	2196.0
22.5°	2090.0	2090.0	2122.2	2136.1	2152.2
25°	2027.8	2030.1	2066.9	2085.4	2101.5
27.5°	1960.9	1963.2	2007.0	2030.1	2048.5
30°	1887.2	1896.4	1942.5	1972.5	1993.2
32.5°	1813.5	1825.0	1875.7	1910.2	1933.3
35°	1735.1	1748.9	1806.6	1845.7	1871.1
37.5°	1654.5	1670.6	1732.8	1776.6	1806.6
40°	1573.8	1592.3	1656.8	1707.5	1742.0
42.5°	1488.6	1509.3	1580.7	1640.6	1677.5
45°	1403.3	1426.3	1500.1	1571.5	1613.0
47.5°	1318.0	1345.7	1424.0	1502.4	1546.2
50°	1230.5	1258.1	1341.1	1431.0	1474.7
52.5°	1142.9	1175.2	1267.4	1359.5	1403.3
55°	1057.7	1089.9	1189.0	1285.8	1329.6
57.5°	970.1	1002.4	1110.7	1212.0	1255.8
60°	880.2	917.1	1030.0	1133.7	1182.1
62.5°	792.7	831.8	951.7	1062.3	1108.4
65°	705.1	746.6	871.0	986.2	1032.3
67.5°	615.2	663.6	792.7	910.2	958.6
70°	527.7	580.7	716.6	834.1	880.2
72.5°	442.4	500.0	640.6	760.4	788.1
75°	357.2	424.0	566.9	633.7	633.7
77.5°	276.5	350.2	483.9	509.2	523.1
80°	200.5	281.1	364.1	394.0	389.4
82.5°	133.6	214.3	260.4	260.4	253.5
85°	76.0	129.0	140.6	136.0	133.6
87.5°	32.3	48.4	43.8	34.6	30.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)