

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: P260773

Luminaire Tested: **24CZ-LD5-65-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260773
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-6500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6832.0 lumens
Efficiency: N/A
Efficacy: 133.8 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

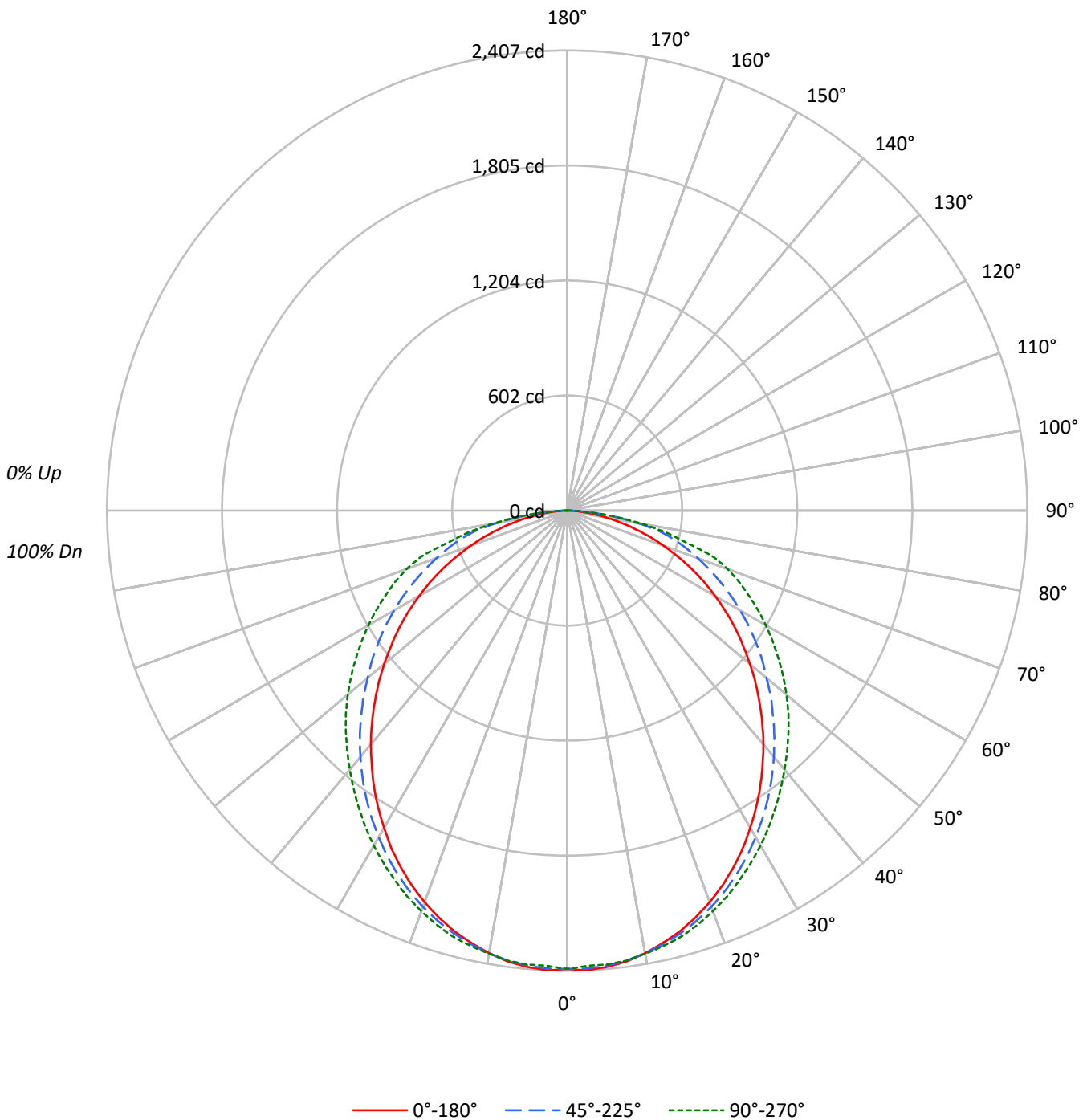
Input Watts (W): 51.057
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3226	3226	3226
5°	3235	3226	3219
10°	3212	3212	3215
15°	3174	3190	3213
20°	3122	3158	3192
25°	3056	3115	3167
30°	2976	3064	3144
35°	2893	3012	3120
40°	2806	2954	3106
45°	2711	2898	3116
50°	2615	2850	3134
55°	2519	2831	3166
60°	2405	2814	3229
65°	2279	2815	3337
70°	2107	2862	3515
75°	1885	2991	3344
80°	1577	2864	3063
85°	1192	2203	2095



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.6	3.3
10°-20°	644.9	9.4
20°-30°	964.0	14.1
30°-40°	1143.6	16.7
40°-50°	1177.1	17.2
50°-60°	1079.8	15.8
60°-70°	873.1	12.8
70°-80°	566.6	8.3
80°-90°	156.2	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°	1835.5	26.9
0°-40°	2979.1	43.6
0°-60°	5236.0	76.6
0°-90°	6832.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6832.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2398	2398	2398	2398	2398	
5°	2395	2379	2388	2386	2384	227
15°	2278	2269	2290	2299	2306	642
25°	2058	2061	2098	2117	2133	947
35°	1761	1776	1834	1874	1899	1101
45°	1425	1448	1523	1595	1637	1099
55°	1074	1106	1207	1305	1350	959
65°	716	758	884	1001	1048	707
75°	363	430	575	643	643	385
85°	77	131	143	138	136	94
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2397.7	2397.7	2397.7	2397.7	2397.7
2.5°	2407.0	2388.3	2397.7	2395.3	2383.6
5°	2395.3	2379.0	2388.3	2386.0	2383.6
7.5°	2379.0	2362.6	2374.3	2371.9	2374.3
10°	2350.9	2336.9	2350.9	2353.2	2353.2
12.5°	2315.8	2304.1	2322.8	2327.5	2332.2
15°	2278.4	2269.0	2290.1	2299.4	2306.4
17.5°	2231.6	2224.6	2250.3	2262.0	2271.4
20°	2180.1	2177.8	2205.9	2217.6	2229.3
22.5°	2121.7	2121.7	2154.4	2168.4	2184.8
25°	2058.5	2060.8	2098.3	2117.0	2133.3
27.5°	1990.7	1993.0	2037.4	2060.8	2079.5
30°	1915.8	1925.2	1971.9	2002.4	2023.4
32.5°	1840.9	1852.6	1904.1	1939.2	1962.6
35°	1761.4	1775.5	1833.9	1873.7	1899.4
37.5°	1679.5	1695.9	1759.1	1803.5	1833.9
40°	1597.7	1616.4	1681.9	1733.3	1768.4
42.5°	1511.1	1532.2	1604.7	1665.5	1702.9
45°	1424.6	1448.0	1522.8	1595.3	1637.4
47.5°	1338.0	1366.1	1445.6	1525.2	1569.6
50°	1249.1	1277.2	1361.4	1452.6	1497.1
52.5°	1160.2	1193.0	1286.6	1380.1	1424.6
55°	1073.7	1106.4	1207.0	1305.3	1349.7
57.5°	984.8	1017.6	1127.5	1230.4	1274.9
60°	893.6	931.0	1045.6	1150.9	1200.0
62.5°	804.7	844.5	966.1	1078.4	1125.2
65°	715.8	757.9	884.2	1001.2	1048.0
67.5°	624.6	673.7	804.7	924.0	973.1
70°	535.7	589.5	727.5	846.8	893.6
72.5°	449.1	507.6	650.3	771.9	800.0
75°	362.6	430.4	575.4	643.3	643.3
77.5°	280.7	355.6	491.2	517.0	531.0
80°	203.5	285.4	369.6	400.0	395.3
82.5°	135.7	217.5	264.3	264.3	257.3
85°	77.2	131.0	142.7	138.0	135.7
87.5°	32.7	49.1	44.4	35.1	30.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)