

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: P260923

Luminaire Tested: **24CZ-LD5-75-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260923
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-LD5-75-UNV-L92765-W2A1-U-5000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6968.0 lumens
Efficiency: N/A
Efficacy: 116.5 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

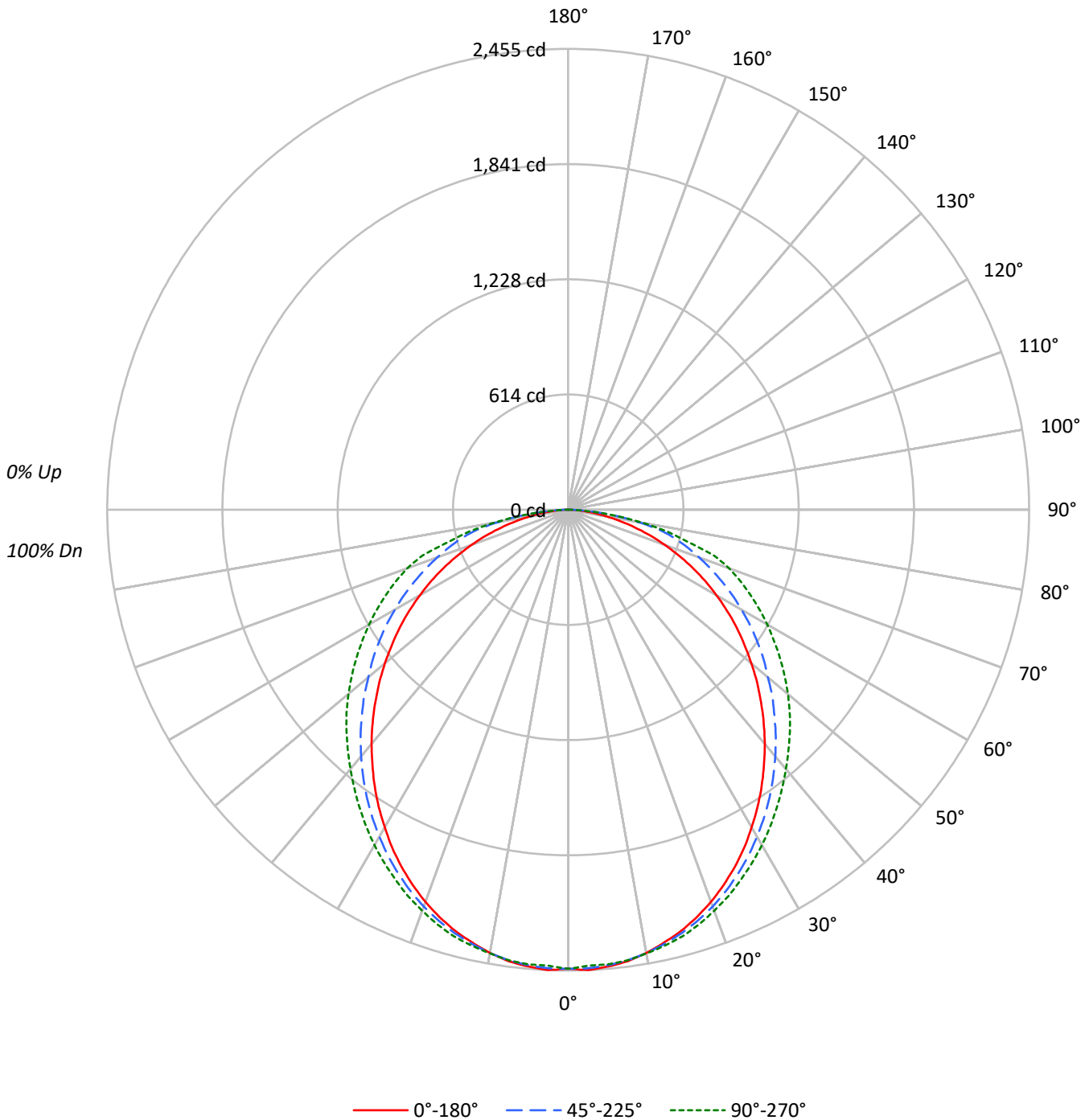
Input Watts (W): 59.799
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3290	3290	3290
5°	3300	3290	3284
10°	3276	3276	3279
15°	3237	3254	3277
20°	3184	3221	3255
25°	3117	3177	3230
30°	3036	3125	3206
35°	2951	3072	3182
40°	2862	3013	3168
45°	2765	2955	3178
50°	2667	2906	3196
55°	2569	2888	3229
60°	2453	2870	3293
65°	2324	2871	3403
70°	2149	2919	3585
75°	1922	3051	3411
80°	1609	2921	3124
85°	1215	2246	2137



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.1	3.3
10°-20°	657.7	9.4
20°-30°	983.2	14.1
30°-40°	1166.4	16.7
40°-50°	1200.5	17.2
50°-60°	1101.3	15.8
60°-70°	890.5	12.8
70°-80°	577.9	8.3
80°-90°	159.4	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°	1872.0	26.9
0°-40°	3038.4	43.6
0°-60°	5340.3	76.6
0°-90°	6968.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6968.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2445	2445	2445	2445	2445	
5°	2443	2426	2436	2434	2431	232
15°	2324	2314	2336	2345	2352	655
25°	2100	2102	2140	2159	2176	966
35°	1796	1811	1870	1911	1937	1123
45°	1453	1477	1553	1627	1670	1121
55°	1095	1128	1231	1331	1377	978
65°	730	773	902	1021	1069	721
75°	370	439	587	656	656	393
85°	79	134	146	141	138	96
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2445.4	2445.4	2445.4	2445.4	2445.4
2.5°	2454.9	2435.9	2445.4	2443.0	2431.1
5°	2443.0	2426.3	2435.9	2433.5	2431.1
7.5°	2426.3	2409.6	2421.5	2419.2	2421.5
10°	2397.7	2383.4	2397.7	2400.1	2400.1
12.5°	2361.9	2350.0	2369.1	2373.8	2378.6
15°	2323.7	2314.2	2335.7	2345.2	2352.4
17.5°	2276.0	2268.9	2295.1	2307.0	2316.6
20°	2223.5	2221.1	2249.8	2261.7	2273.6
22.5°	2163.9	2163.9	2197.3	2211.6	2228.3
25°	2099.5	2101.9	2140.0	2159.1	2175.8
27.5°	2030.3	2032.7	2078.0	2101.9	2120.9
30°	1953.9	1963.5	2011.2	2042.2	2063.7
32.5°	1877.6	1889.5	1942.0	1977.8	2001.7
35°	1796.5	1810.8	1870.4	1911.0	1937.2
37.5°	1713.0	1729.7	1794.1	1839.4	1870.4
40°	1629.5	1648.6	1715.4	1767.8	1803.6
42.5°	1541.2	1562.7	1636.6	1698.7	1736.8
45°	1452.9	1476.8	1553.1	1627.1	1670.0
47.5°	1364.7	1393.3	1474.4	1555.5	1600.8
50°	1274.0	1302.6	1388.5	1481.6	1526.9
52.5°	1183.3	1216.7	1312.2	1407.6	1452.9
55°	1095.1	1128.5	1231.1	1331.3	1376.6
57.5°	1004.4	1037.8	1149.9	1254.9	1300.2
60°	911.4	949.5	1066.4	1173.8	1223.9
62.5°	820.7	861.3	985.3	1099.8	1147.6
65°	730.0	773.0	901.8	1021.1	1068.8
67.5°	637.0	687.1	820.7	942.4	992.5
70°	546.3	601.2	742.0	863.6	911.4
72.5°	458.1	517.7	663.2	787.3	815.9
75°	369.8	439.0	586.9	656.1	656.1
77.5°	286.3	362.6	501.0	527.3	541.6
80°	207.6	291.1	377.0	408.0	403.2
82.5°	138.4	221.9	269.6	269.6	262.4
85°	78.7	133.6	145.5	140.8	138.4
87.5°	33.4	50.1	45.3	35.8	31.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)