

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: P261340

Luminaire Tested: **24CZ-LD5-75-S-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261340
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25694)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-75-S-UNV-L92765-W2A1-U-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (336) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6578.0 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

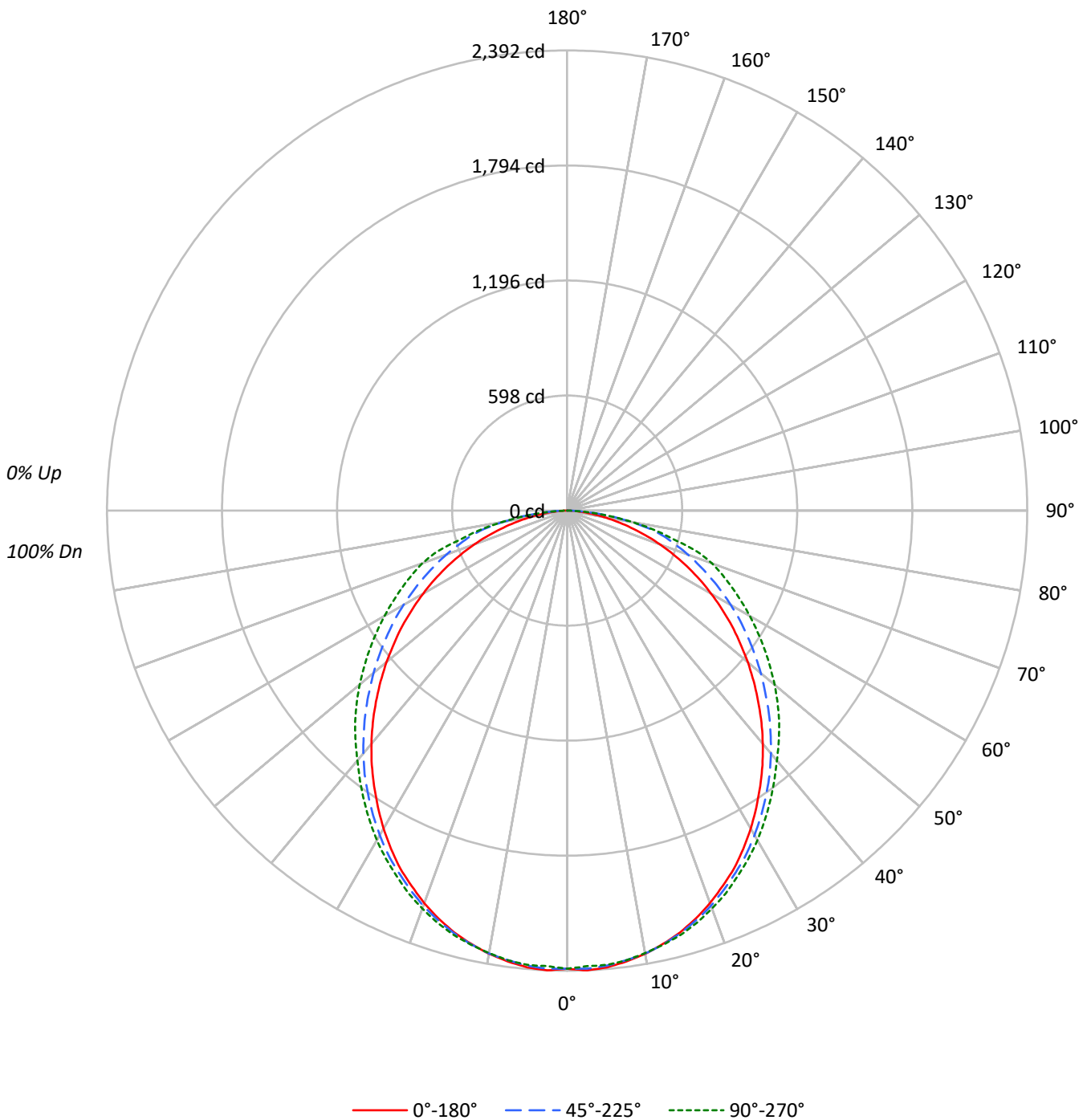
Input Watts (W): 58.497
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50
5	76	63	53	47	73	61	53	47	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3204	3204	3204
5°	3219	3207	3202
10°	3197	3194	3191
15°	3162	3168	3180
20°	3109	3131	3153
25°	3048	3080	3113
30°	2965	3026	3074
35°	2872	2962	3023
40°	2780	2895	2979
45°	2674	2820	2965
50°	2566	2749	2946
55°	2454	2690	2937
60°	2327	2644	2951
65°	2188	2613	3010
70°	2015	2626	3151
75°	1786	2719	2936
80°	1492	2578	2645
85°	1115	2061	1893



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.1	3.4
10°-20°	640.3	9.7
20°-30°	954.2	14.5
30°-40°	1123.3	17.1
40°-50°	1141.5	17.4
50°-60°	1026.3	15.6
60°-70°	810.8	12.3
70°-80°	514.4	7.8
80°-90°	142.0	2.2
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°	1819.7	27.7
0°-40°	2943.0	44.7
0°-60°	5110.8	77.7
0°-90°	6578.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6578.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2381	2381	2381	2381	2381	
5°	2384	2364	2375	2370	2370	226
15°	2270	2259	2274	2281	2283	639
25°	2053	2051	2075	2088	2097	944
35°	1749	1760	1804	1823	1841	1094
45°	1405	1425	1482	1526	1558	1084
55°	1046	1072	1147	1221	1252	934
65°	687	722	821	910	946	681
75°	344	403	523	569	565	366
85°	72	125	134	123	123	89
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2381.4	2381.4	2381.4	2381.4	2381.4
2.5°	2392.3	2374.8	2383.5	2379.2	2370.4
5°	2383.5	2363.8	2374.8	2370.4	2370.4
7.5°	2363.8	2348.5	2357.3	2355.1	2357.3
10°	2339.8	2324.4	2337.6	2337.6	2335.4
12.5°	2306.9	2293.8	2309.1	2309.1	2311.3
15°	2269.7	2258.8	2274.1	2280.7	2282.9
17.5°	2223.8	2212.8	2232.5	2239.1	2245.7
20°	2171.2	2166.9	2186.6	2193.1	2201.9
22.5°	2112.1	2112.1	2131.8	2140.6	2153.7
25°	2053.0	2050.9	2074.9	2088.1	2096.8
27.5°	1983.0	1985.2	2015.8	2029.0	2039.9
30°	1908.6	1913.0	1948.0	1963.3	1978.6
32.5°	1829.8	1838.5	1877.9	1895.5	1910.8
35°	1748.8	1759.8	1803.5	1823.2	1840.7
37.5°	1667.8	1683.1	1729.1	1748.8	1768.5
40°	1582.5	1595.6	1648.1	1672.2	1696.3
42.5°	1494.9	1512.4	1565.0	1600.0	1628.4
45°	1405.2	1424.9	1481.8	1525.6	1558.4
47.5°	1315.4	1341.7	1396.4	1455.5	1484.0
50°	1225.7	1252.0	1313.2	1378.9	1407.4
52.5°	1133.8	1160.0	1230.1	1297.9	1328.6
55°	1046.2	1072.5	1146.9	1221.3	1252.0
57.5°	954.3	982.7	1065.9	1142.5	1173.2
60°	864.6	893.0	982.7	1063.7	1096.6
62.5°	777.0	807.6	901.8	987.1	1020.0
65°	687.3	722.3	820.8	910.5	945.5
67.5°	599.7	639.1	742.0	836.1	873.3
70°	512.2	558.1	667.6	763.9	801.1
72.5°	426.8	477.1	593.2	689.5	709.2
75°	343.6	402.7	523.1	569.1	564.7
77.5°	264.8	330.5	444.3	453.1	466.2
80°	192.6	264.8	332.7	350.2	341.4
82.5°	126.9	199.2	238.6	229.8	227.6
85°	72.2	124.8	133.5	122.6	122.6
87.5°	30.6	50.3	43.8	32.8	30.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)