

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: P260654

Luminaire Tested: **24CZ-LD5-55-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260654
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-LD5-55-UNV-L93050-W2A1-U-4000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5094.9 lumens
Efficiency: N/A
Efficacy: 123.9 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

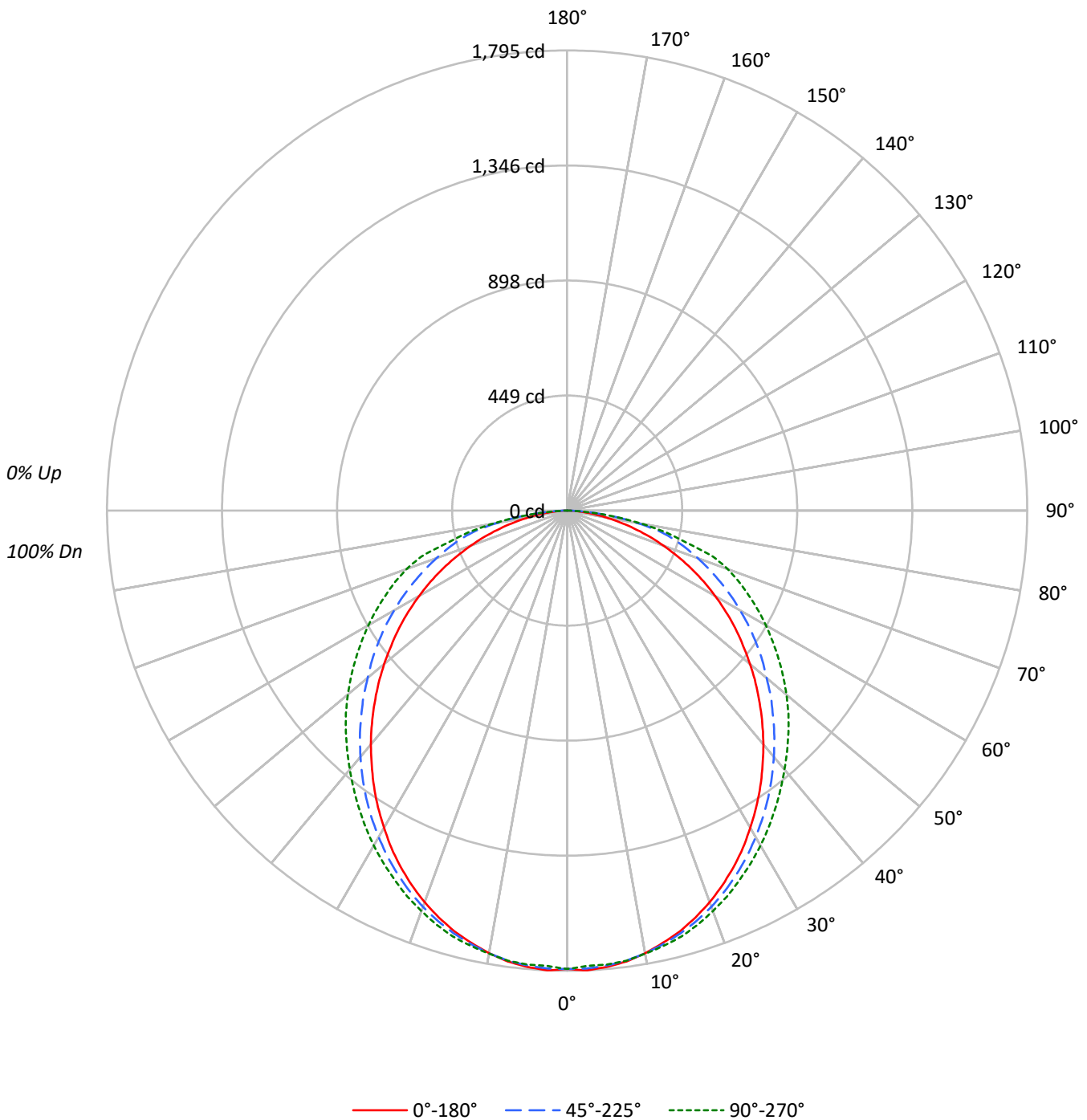
Input Watts (W): 41.125158
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2406	2406	2406
5°	2413	2406	2401
10°	2395	2395	2398
15°	2367	2379	2396
20°	2328	2355	2380
25°	2279	2323	2362
30°	2220	2285	2344
35°	2158	2246	2327
40°	2093	2203	2316
45°	2022	2161	2324
50°	1950	2125	2337
55°	1878	2111	2361
60°	1793	2098	2408
65°	1699	2099	2488
70°	1572	2134	2622
75°	1406	2231	2494
80°	1176	2135	2284
85°	889	1643	1562



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.0	3.3
10°-20°	480.9	9.4
20°-30°	718.9	14.1
30°-40°	852.9	16.7
40°-50°	877.8	17.2
50°-60°	805.3	15.8
60°-70°	651.1	12.8
70°-80°	422.6	8.3
80°-90°	116.5	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°	1368.8	26.9
0°-40°	2221.6	43.6
0°-60°	3904.7	76.6
0°-90°	5094.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5094.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1788	1788	1788	1788	1788	
5°	1786	1774	1781	1779	1778	169
15°	1699	1692	1708	1715	1720	479
25°	1535	1537	1565	1579	1591	707
35°	1314	1324	1368	1397	1416	821
45°	1062	1080	1136	1190	1221	820
55°	801	825	900	973	1006	715
65°	534	565	659	747	782	528
75°	270	321	429	480	480	287
85°	58	98	106	103	101	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1788.0	1788.0	1788.0	1788.0	1788.0
2.5°	1795.0	1781.1	1788.0	1786.3	1777.6
5°	1786.3	1774.1	1781.1	1779.3	1777.6
7.5°	1774.1	1761.9	1770.6	1768.9	1770.6
10°	1753.2	1742.7	1753.2	1754.9	1754.9
12.5°	1727.0	1718.3	1732.2	1735.7	1739.2
15°	1699.1	1692.1	1707.8	1714.8	1720.0
17.5°	1664.2	1659.0	1678.1	1686.9	1693.8
20°	1625.8	1624.1	1645.0	1653.7	1662.4
22.5°	1582.2	1582.2	1606.6	1617.1	1629.3
25°	1535.1	1536.8	1564.8	1578.7	1590.9
27.5°	1484.5	1486.3	1519.4	1536.8	1550.8
30°	1428.7	1435.7	1470.6	1493.2	1508.9
32.5°	1372.9	1381.6	1420.0	1446.1	1463.6
35°	1313.6	1324.0	1367.6	1397.3	1416.5
37.5°	1252.5	1264.7	1311.8	1345.0	1367.6
40°	1191.4	1205.4	1254.2	1292.6	1318.8
42.5°	1126.9	1142.6	1196.7	1242.0	1269.9
45°	1062.4	1079.8	1135.6	1189.7	1221.1
47.5°	997.8	1018.7	1078.1	1137.4	1170.5
50°	931.5	952.5	1015.3	1083.3	1116.4
52.5°	865.2	889.7	959.4	1029.2	1062.4
55°	800.7	825.1	900.1	973.4	1006.5
57.5°	734.4	758.8	840.8	917.6	950.7
60°	666.4	694.3	779.8	858.3	894.9
62.5°	600.1	629.7	720.5	804.2	839.1
65°	533.8	565.2	659.4	746.6	781.5
67.5°	465.8	502.4	600.1	689.1	725.7
70°	399.5	439.6	542.5	631.5	666.4
72.5°	334.9	378.5	485.0	575.7	596.6
75°	270.4	321.0	429.1	479.7	479.7
77.5°	209.3	265.2	366.3	385.5	396.0
80°	151.8	212.8	275.6	298.3	294.8
82.5°	101.2	162.2	197.1	197.1	191.9
85°	57.6	97.7	106.4	102.9	101.2
87.5°	24.4	36.6	33.1	26.2	22.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)