

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: P260579

Luminaire Tested: **24CZ-LD5-55-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260579
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-L83050-W2A1-U-4000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5828.0 lumens
Efficiency: N/A
Efficacy: 142.1 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

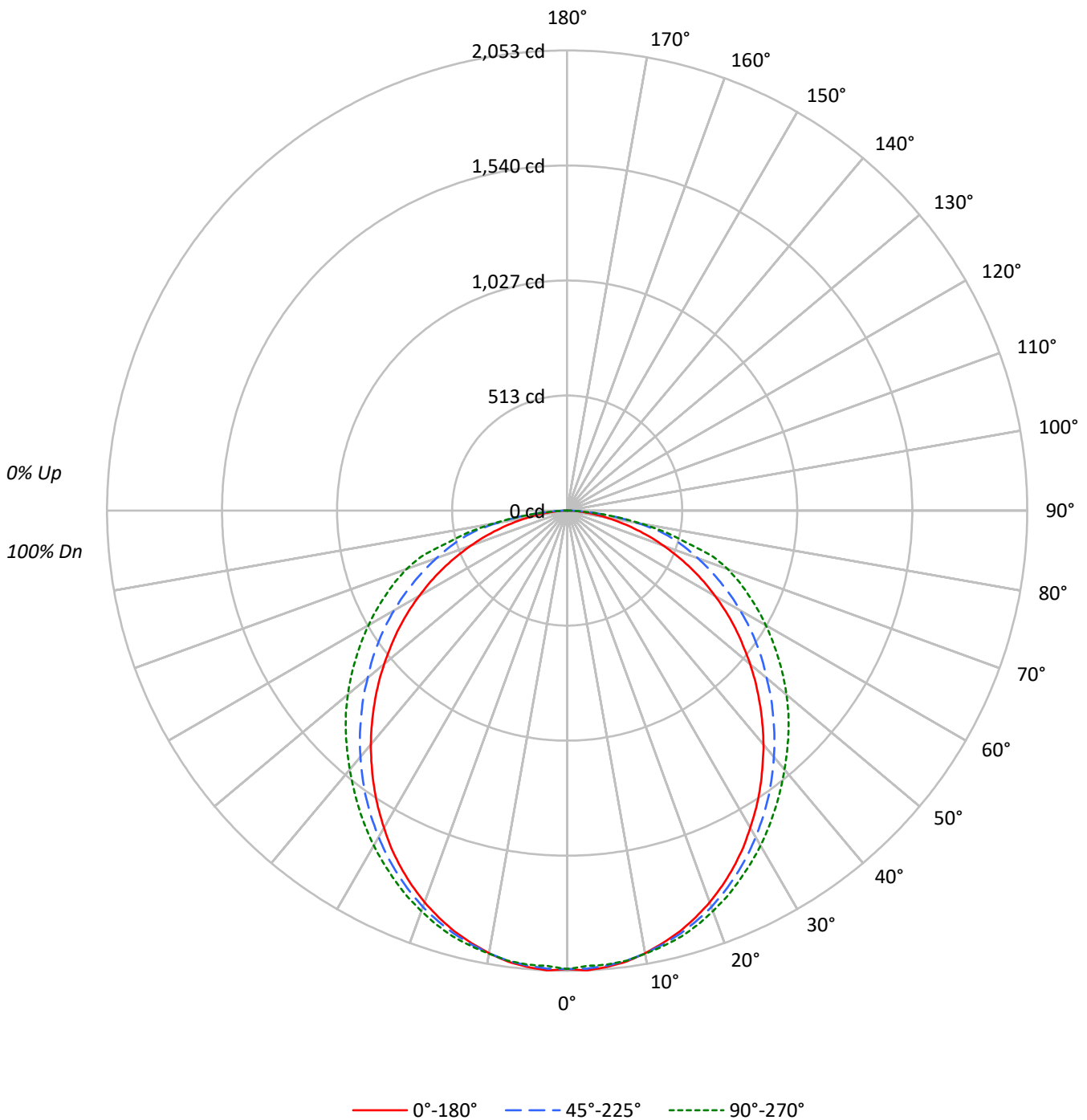
Input Watts (W): 41.004909
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2752	2752	2752
5°	2760	2752	2746
10°	2740	2740	2743
15°	2707	2721	2741
20°	2663	2694	2723
25°	2607	2657	2702
30°	2539	2614	2682
35°	2468	2570	2661
40°	2394	2520	2650
45°	2312	2472	2658
50°	2231	2431	2673
55°	2149	2415	2701
60°	2051	2400	2755
65°	1944	2401	2846
70°	1798	2441	2999
75°	1608	2552	2852
80°	1345	2443	2613
85°	1016	1879	1786



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.3	3.3
10°-20°	550.1	9.4
20°-30°	822.4	14.1
30°-40°	975.6	16.7
40°-50°	1004.1	17.2
50°-60°	921.1	15.8
60°-70°	744.8	12.8
70°-80°	483.4	8.3
80°-90°	133.3	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°	1565.7	26.9
0°-40°	2541.3	43.6
0°-60°	4466.6	76.6
0°-90°	5828.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5828.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2045	2045	2045	2045	2045	
5°	2043	2029	2037	2035	2033	194
15°	1944	1936	1954	1962	1968	547
25°	1756	1758	1790	1806	1820	808
35°	1503	1514	1564	1598	1620	940
45°	1215	1235	1299	1361	1397	938
55°	916	944	1030	1114	1151	818
65°	611	646	754	854	894	603
75°	309	367	491	549	549	329
85°	66	112	122	118	116	81
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2045.3	2045.3	2045.3	2045.3	2045.3
2.5°	2053.3	2037.3	2045.3	2043.3	2033.4
5°	2043.3	2029.4	2037.3	2035.3	2033.4
7.5°	2029.4	2015.4	2025.4	2023.4	2025.4
10°	2005.4	1993.4	2005.4	2007.4	2007.4
12.5°	1975.5	1965.5	1981.5	1985.5	1989.5
15°	1943.6	1935.6	1953.5	1961.5	1967.5
17.5°	1903.6	1897.7	1919.6	1929.6	1937.6
20°	1859.7	1857.8	1881.7	1891.7	1901.7
22.5°	1809.9	1809.9	1837.8	1849.8	1863.7
25°	1756.0	1758.0	1789.9	1805.9	1819.8
27.5°	1698.1	1700.1	1738.0	1758.0	1773.9
30°	1634.3	1642.2	1682.2	1708.1	1726.1
32.5°	1570.4	1580.4	1624.3	1654.2	1674.2
35°	1502.6	1514.5	1564.4	1598.3	1620.3
37.5°	1432.7	1446.7	1500.6	1538.5	1564.4
40°	1362.9	1378.8	1434.7	1478.6	1508.6
42.5°	1289.1	1307.0	1368.9	1420.8	1452.7
45°	1215.2	1235.2	1299.0	1360.9	1396.8
47.5°	1141.4	1165.3	1233.2	1301.0	1338.9
50°	1065.6	1089.5	1161.3	1239.2	1277.1
52.5°	989.7	1017.7	1097.5	1177.3	1215.2
55°	915.9	943.8	1029.6	1113.5	1151.4
57.5°	840.1	868.0	961.8	1049.6	1087.5
60°	762.3	794.2	892.0	981.8	1023.7
62.5°	686.4	720.4	824.1	919.9	959.8
65°	610.6	646.5	754.3	854.0	894.0
67.5°	532.8	574.7	686.4	788.2	830.1
70°	457.0	502.9	620.6	722.3	762.3
72.5°	383.1	433.0	554.7	658.5	682.4
75°	309.3	367.2	490.9	548.7	548.7
77.5°	239.5	303.3	419.0	441.0	453.0
80°	173.6	243.4	315.3	341.2	337.2
82.5°	115.7	185.6	225.5	225.5	219.5
85°	65.8	111.7	121.7	117.7	115.7
87.5°	27.9	41.9	37.9	29.9	25.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)