

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: P260993

Luminaire Tested: **24CZ-LD5-50-S-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260993
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-LD5-50-S-UNV-L83050-W2A1-U-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (336) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5127.0 lumens
Efficiency: N/A
Efficacy: 143.6 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

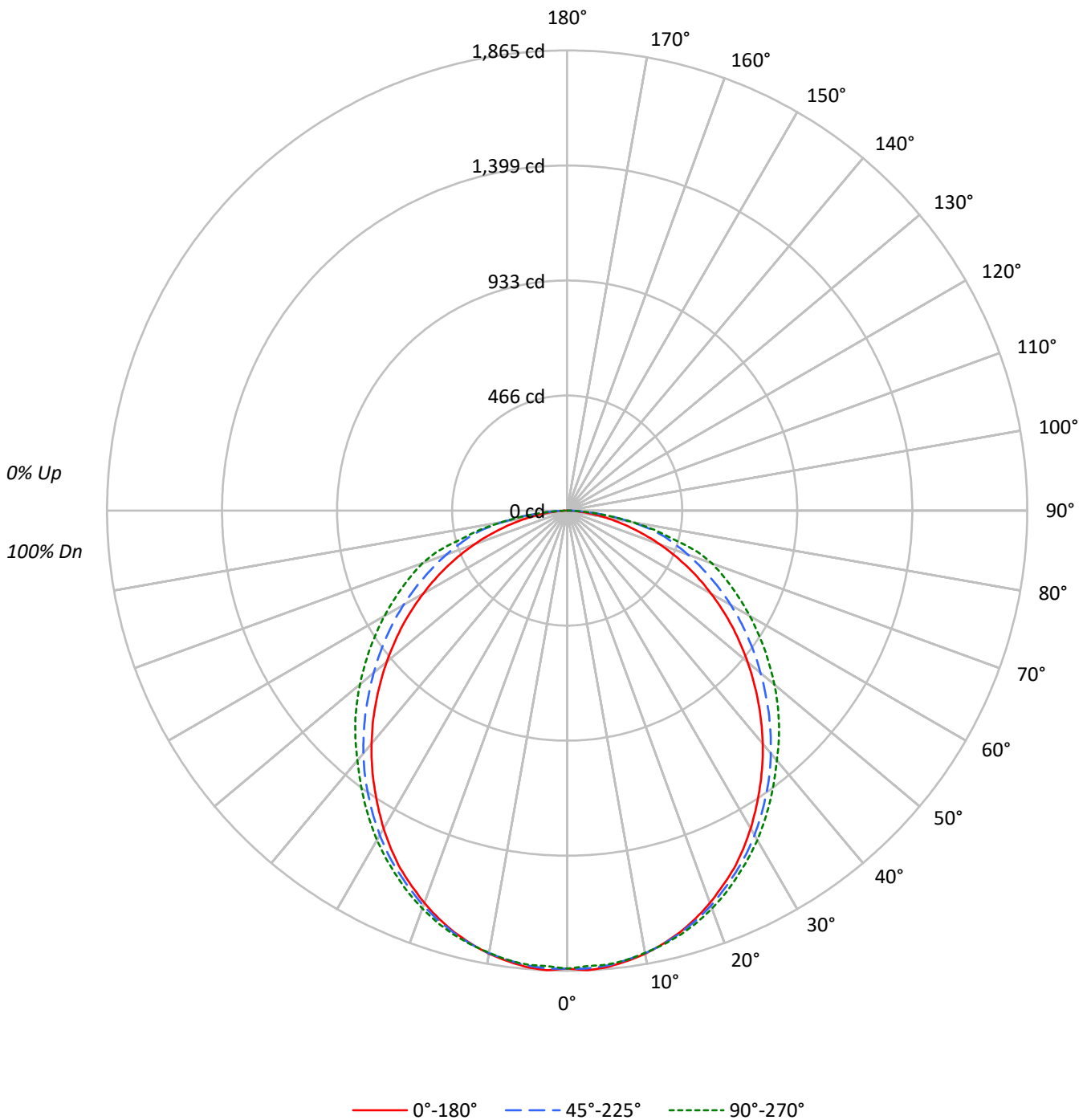
Input Watts (W): 35.712
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2497	2497	2497
5°	2509	2500	2495
10°	2492	2489	2487
15°	2464	2469	2478
20°	2423	2440	2457
25°	2376	2401	2426
30°	2311	2359	2396
35°	2239	2309	2357
40°	2166	2256	2322
45°	2084	2198	2311
50°	2000	2143	2296
55°	1913	2097	2289
60°	1813	2061	2300
65°	1706	2037	2346
70°	1570	2047	2456
75°	1392	2119	2288
80°	1163	2009	2062
85°	869	1607	1474



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.5	3.4
10°-20°	499.1	9.7
20°-30°	743.8	14.5
30°-40°	875.5	17.1
40°-50°	889.7	17.4
50°-60°	799.9	15.6
60°-70°	632.0	12.3
70°-80°	400.9	7.8
80°-90°	110.6	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°	1418.3	27.7
0°-40°	2293.8	44.7
0°-60°	3983.5	77.7
0°-90°	5127.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5127.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1856	1856	1856	1856	1856	
5°	1858	1842	1851	1848	1848	176
15°	1769	1760	1772	1778	1779	498
25°	1600	1598	1617	1628	1634	736
35°	1363	1372	1406	1421	1435	853
45°	1095	1111	1155	1189	1215	845
55°	815	836	894	952	976	728
65°	536	563	640	710	737	531
75°	268	314	408	444	440	285
85°	56	97	104	96	96	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1856.1	1856.1	1856.1	1856.1	1856.1
2.5°	1864.6	1851.0	1857.8	1854.4	1847.5
5°	1857.8	1842.4	1851.0	1847.5	1847.5
7.5°	1842.4	1830.5	1837.3	1835.6	1837.3
10°	1823.7	1811.7	1821.9	1821.9	1820.2
12.5°	1798.1	1787.8	1799.8	1799.8	1801.5
15°	1769.1	1760.5	1772.5	1777.6	1779.3
17.5°	1733.2	1724.7	1740.1	1745.2	1750.3
20°	1692.3	1688.9	1704.2	1709.4	1716.2
22.5°	1646.2	1646.2	1661.6	1668.4	1678.7
25°	1600.2	1598.5	1617.2	1627.5	1634.3
27.5°	1545.6	1547.3	1571.2	1581.4	1589.9
30°	1487.6	1491.0	1518.3	1530.2	1542.2
32.5°	1426.2	1433.0	1463.7	1477.3	1489.3
35°	1363.1	1371.6	1405.7	1421.1	1434.7
37.5°	1299.9	1311.9	1347.7	1363.1	1378.4
40°	1233.4	1243.6	1284.6	1303.3	1322.1
42.5°	1165.2	1178.8	1219.8	1247.0	1269.2
45°	1095.2	1110.6	1154.9	1189.0	1214.6
47.5°	1025.3	1045.7	1088.4	1134.5	1156.6
50°	955.3	975.8	1023.6	1074.7	1096.9
52.5°	883.7	904.2	958.7	1011.6	1035.5
55°	815.4	835.9	893.9	951.9	975.8
57.5°	743.8	766.0	830.8	890.5	914.4
60°	673.8	696.0	766.0	829.1	854.7
62.5°	605.6	629.5	702.8	769.4	795.0
65°	535.7	563.0	639.7	709.7	737.0
67.5°	467.4	498.1	578.3	651.7	680.7
70°	399.2	435.0	520.3	595.4	624.4
72.5°	332.7	371.9	462.3	537.4	552.7
75°	267.8	313.9	407.7	443.5	440.1
77.5°	206.4	257.6	346.3	353.1	363.4
80°	150.1	206.4	259.3	273.0	266.1
82.5°	98.9	155.2	185.9	179.1	177.4
85°	56.3	97.2	104.1	95.5	95.5
87.5°	23.9	39.2	34.1	25.6	23.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)