

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: P260572

Luminaire Tested: **24CZ-LD5-50-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260572
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-LD5-50-UNV-L83050-W2A1-U-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4750.0 lumens
Efficiency: N/A
Efficacy: 133.3 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

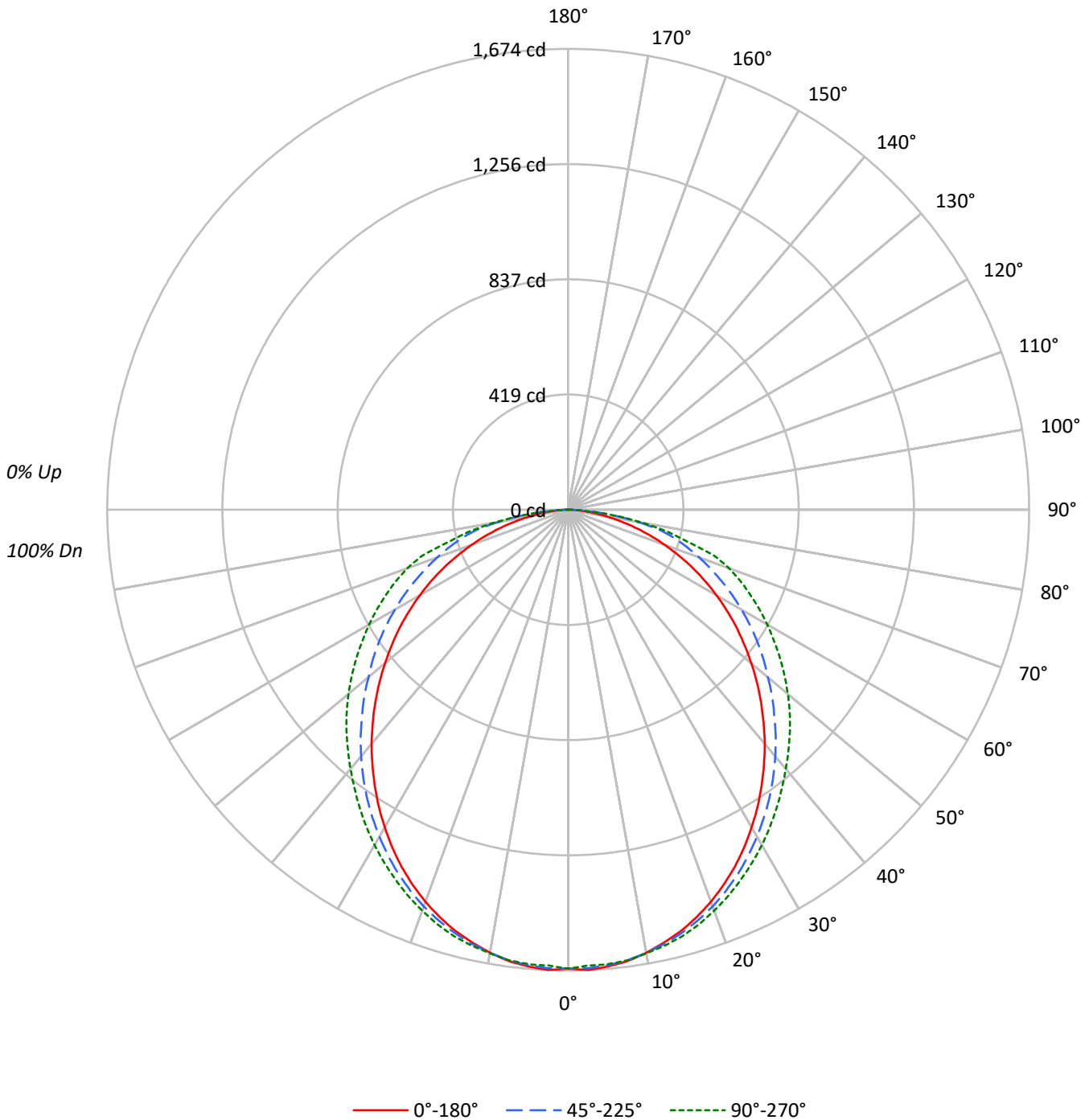
Input Watts (W): 35.640576
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2243	2243	2243
5°	2249	2243	2238
10°	2233	2233	2235
15°	2207	2218	2234
20°	2170	2196	2219
25°	2125	2166	2202
30°	2069	2130	2186
35°	2011	2094	2169
40°	1951	2054	2160
45°	1885	2015	2166
50°	1818	1981	2179
55°	1751	1969	2201
60°	1672	1956	2245
65°	1585	1957	2320
70°	1465	1990	2444
75°	1311	2080	2325
80°	1096	1991	2130
85°	829	1531	1456



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.5	3.3
10°-20°	448.3	9.4
20°-30°	670.2	14.1
30°-40°	795.1	16.7
40°-50°	818.4	17.2
50°-60°	750.8	15.8
60°-70°	607.0	12.8
70°-80°	394.0	8.3
80°-90°	108.6	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°	1276.1	26.9
0°-40°	2071.2	43.6
0°-60°	3640.4	76.6
0°-90°	4750.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4750.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1667	1667	1667	1667	1667	
5°	1665	1654	1660	1659	1657	158
15°	1584	1578	1592	1599	1604	446
25°	1431	1433	1459	1472	1483	659
35°	1225	1234	1275	1303	1321	766
45°	990	1007	1059	1109	1138	764
55°	746	769	839	908	938	667
65°	498	527	615	696	729	492
75°	252	299	400	447	447	268
85°	54	91	99	96	94	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1667.0	1667.0	1667.0	1667.0	1667.0
2.5°	1673.5	1660.5	1667.0	1665.4	1657.2
5°	1665.4	1654.0	1660.5	1658.9	1657.2
7.5°	1654.0	1642.6	1650.7	1649.1	1650.7
10°	1634.5	1624.7	1634.5	1636.1	1636.1
12.5°	1610.1	1601.9	1615.0	1618.2	1621.5
15°	1584.1	1577.6	1592.2	1598.7	1603.6
17.5°	1551.5	1546.7	1564.5	1572.7	1579.2
20°	1515.8	1514.1	1533.6	1541.8	1549.9
22.5°	1475.1	1475.1	1497.9	1507.6	1519.0
25°	1431.2	1432.8	1458.8	1471.8	1483.2
27.5°	1384.0	1385.6	1416.5	1432.8	1445.8
30°	1332.0	1338.5	1371.0	1392.2	1406.8
32.5°	1279.9	1288.1	1323.8	1348.2	1364.5
35°	1224.6	1234.4	1275.1	1302.7	1320.6
37.5°	1167.7	1179.1	1223.0	1253.9	1275.1
40°	1110.8	1123.8	1169.3	1205.1	1229.5
42.5°	1050.6	1065.3	1115.7	1158.0	1184.0
45°	990.4	1006.7	1058.8	1109.2	1138.4
47.5°	930.3	949.8	1005.1	1060.4	1091.3
50°	868.5	888.0	946.5	1010.0	1040.9
52.5°	806.7	829.4	894.5	959.5	990.4
55°	746.5	769.3	839.2	907.5	938.4
57.5°	684.7	707.5	783.9	855.5	886.4
60°	621.3	647.3	727.0	800.2	834.3
62.5°	559.5	587.1	671.7	749.7	782.3
65°	497.7	526.9	614.8	696.1	728.6
67.5°	434.2	468.4	559.5	642.4	676.6
70°	372.4	409.8	505.8	588.7	621.3
72.5°	312.3	352.9	452.1	536.7	556.2
75°	252.1	299.2	400.1	447.2	447.2
77.5°	195.2	247.2	341.5	359.4	369.2
80°	141.5	198.4	257.0	278.1	274.9
82.5°	94.3	151.3	183.8	183.8	178.9
85°	53.7	91.1	99.2	96.0	94.3
87.5°	22.8	34.2	30.9	24.4	21.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)