

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: P260881

Luminaire Tested: **24CZ-LD5-50-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260881
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-L92765-W2A1-U-6500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4770.0 lumens
Efficiency: N/A
Efficacy: 127.6 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

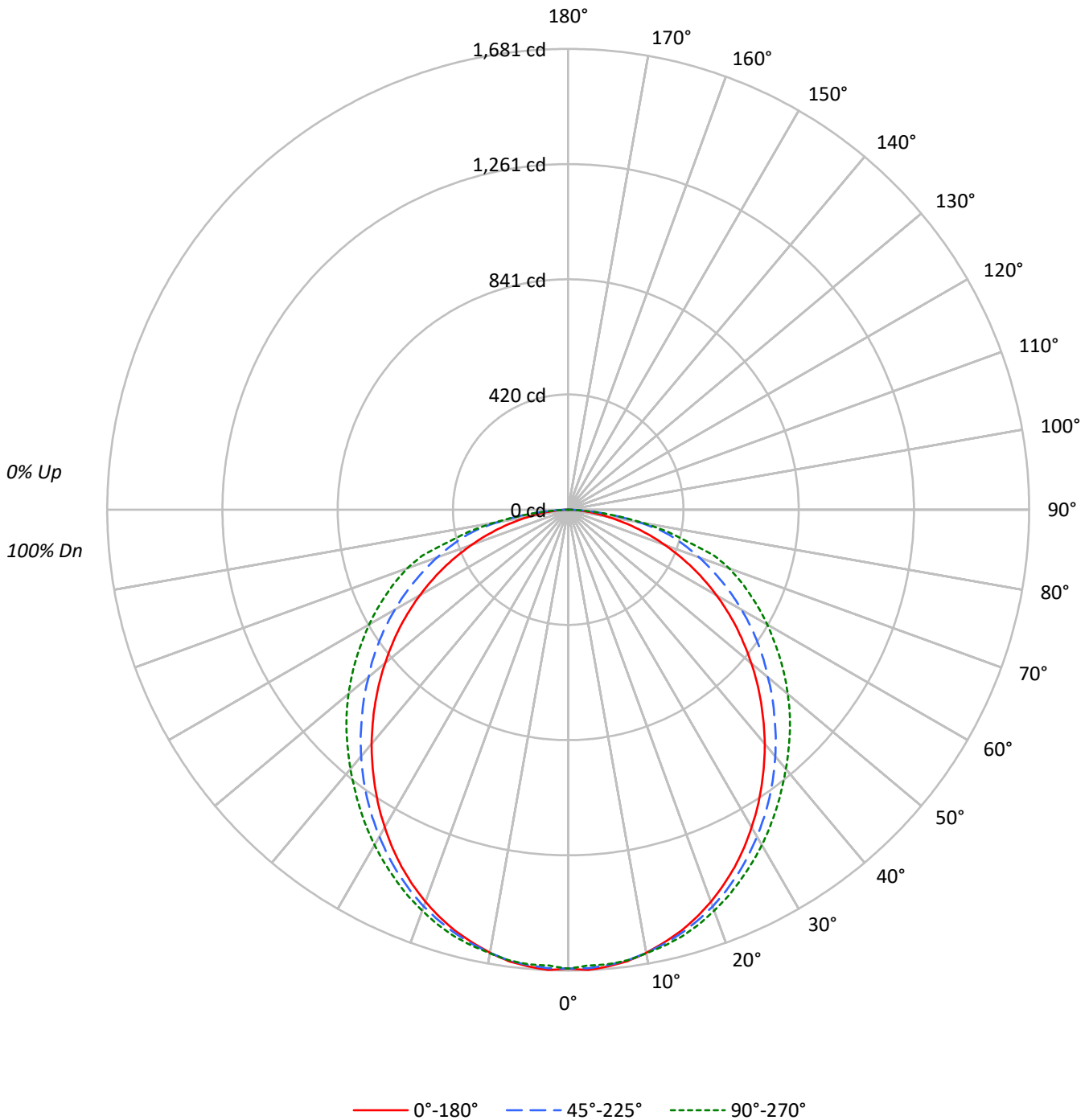
Input Watts (W): 37.386
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2252	2252	2252
5°	2259	2252	2248
10°	2243	2243	2245
15°	2216	2227	2243
20°	2179	2205	2229
25°	2134	2175	2211
30°	2078	2139	2195
35°	2020	2103	2178
40°	1959	2063	2169
45°	1893	2023	2175
50°	1825	1990	2188
55°	1758	1977	2211
60°	1679	1964	2255
65°	1591	1965	2330
70°	1471	1998	2454
75°	1316	2089	2335
80°	1101	1999	2139
85°	832	1538	1462



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.2	3.3
10°-20°	450.2	9.4
20°-30°	673.1	14.1
30°-40°	798.5	16.7
40°-50°	821.8	17.2
50°-60°	753.9	15.8
60°-70°	609.6	12.8
70°-80°	395.6	8.3
80°-90°	109.1	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°	1281.5	26.9
0°-40°	2080.0	43.6
0°-60°	3655.7	76.6
0°-90°	4770.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4770.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1674	1674	1674	1674	1674	
5°	1672	1661	1668	1666	1664	159
15°	1591	1584	1599	1605	1610	448
25°	1437	1439	1465	1478	1490	662
35°	1230	1240	1280	1308	1326	769
45°	995	1011	1063	1114	1143	768
55°	750	772	843	911	942	670
65°	500	529	617	699	732	494
75°	253	300	402	449	449	269
85°	54	92	100	96	95	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1674.0	1674.0	1674.0	1674.0	1674.0
2.5°	1680.6	1667.5	1674.0	1672.4	1664.2
5°	1672.4	1661.0	1667.5	1665.9	1664.2
7.5°	1661.0	1649.5	1657.7	1656.1	1657.7
10°	1641.4	1631.6	1641.4	1643.0	1643.0
12.5°	1616.9	1608.7	1621.8	1625.0	1628.3
15°	1590.7	1584.2	1598.9	1605.4	1610.3
17.5°	1558.1	1553.2	1571.1	1579.3	1585.8
20°	1522.1	1520.5	1540.1	1548.3	1556.4
22.5°	1481.3	1481.3	1504.2	1514.0	1525.4
25°	1437.2	1438.8	1465.0	1478.0	1489.5
27.5°	1389.8	1391.5	1422.5	1438.8	1451.9
30°	1337.6	1344.1	1376.8	1398.0	1412.7
32.5°	1285.3	1293.5	1329.4	1353.9	1370.2
35°	1229.8	1239.6	1280.4	1308.2	1326.2
37.5°	1172.6	1184.1	1228.2	1259.2	1280.4
40°	1115.5	1128.5	1174.3	1210.2	1234.7
42.5°	1055.0	1069.7	1120.4	1162.8	1189.0
45°	994.6	1010.9	1063.2	1113.8	1143.2
47.5°	934.2	953.8	1009.3	1064.8	1095.9
50°	872.1	891.7	950.5	1014.2	1045.2
52.5°	810.1	832.9	898.3	963.6	994.6
55°	749.6	772.5	842.7	911.3	942.4
57.5°	687.6	710.4	787.2	859.1	890.1
60°	623.9	650.0	730.0	803.5	837.8
62.5°	561.8	589.6	674.5	752.9	785.6
65°	499.8	529.2	617.3	699.0	731.7
67.5°	436.1	470.4	561.8	645.1	679.4
70°	374.0	411.6	507.9	591.2	623.9
72.5°	313.6	354.4	454.0	539.0	558.6
75°	253.1	300.5	401.8	449.1	449.1
77.5°	196.0	248.2	343.0	360.9	370.7
80°	142.1	199.2	258.0	279.3	276.0
82.5°	94.7	151.9	184.6	184.6	179.7
85°	53.9	91.5	99.6	96.4	94.7
87.5°	22.9	34.3	31.0	24.5	21.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)