

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: P275963

Luminaire Tested: **24CZ2-50-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275963
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-5)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-50-UNV-L83050-W2A1-U-3500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4732.0 lumens
Efficiency: N/A
Efficacy: 119.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

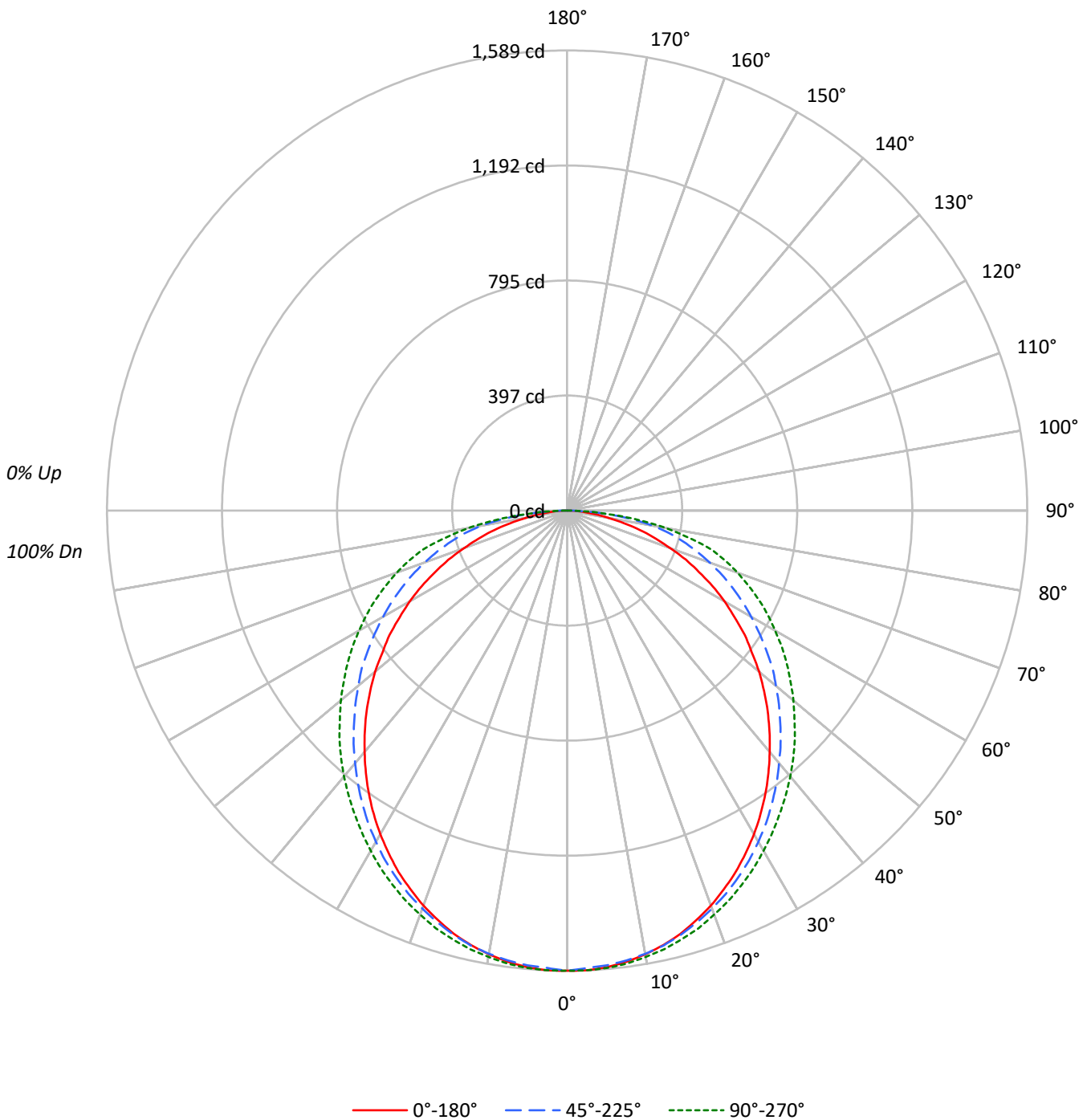
Input Watts (W): 39.711
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	98	94	105	100	96	92	96	93	89	92	89	87	89	86	84	82
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	58	56
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	50	48
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39	50	44	38	49	43	38	36
7	64	50	41	35	62	49	40	34	47	40	34	46	39	34	45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2138	2138	2138
5°	2137	2129	2142
10°	2125	2123	2138
15°	2107	2112	2134
20°	2078	2094	2126
25°	2044	2075	2117
30°	2005	2051	2108
35°	1961	2026	2101
40°	1911	2000	2105
45°	1863	1980	2116
50°	1811	1970	2135
55°	1756	1967	2175
60°	1687	1976	2231
65°	1599	2006	2328
70°	1485	2056	2460
75°	1355	2159	2668
80°	1113	2325	2668
85°	854	2146	2293



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.3	3.2
10°-20°	429.0	9.1
20°-30°	645.5	13.6
30°-40°	773.6	16.3
40°-50°	806.2	17.0
50°-60°	750.1	15.9
60°-70°	617.8	13.1
70°-80°	420.7	8.9
80°-90°	138.9	2.9
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°	1224.8	25.9
0°-40°	1998.4	42.2
0°-60°	3554.6	75.1
0°-90°	4732.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4732.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1589	1589	1589	1589	1589	
5°	1582	1582	1576	1584	1586	150
15°	1513	1514	1516	1530	1532	426
25°	1377	1383	1398	1421	1426	634
35°	1194	1208	1233	1267	1279	746
45°	979	1000	1041	1093	1112	755
55°	749	774	839	905	927	667
65°	502	545	630	704	731	499
75°	261	319	415	490	513	275
85°	55	107	139	148	148	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1588.8	1588.8	1588.8	1588.8	1588.8
2.5°	1588.8	1588.8	1580.9	1588.8	1588.8
5°	1582.4	1582.4	1576.1	1584.0	1585.6
7.5°	1571.4	1573.0	1566.6	1576.1	1577.7
10°	1555.6	1557.2	1554.0	1563.5	1565.1
12.5°	1536.6	1538.2	1538.2	1549.3	1550.8
15°	1512.9	1514.5	1516.1	1530.3	1531.9
17.5°	1482.9	1487.7	1490.8	1508.2	1511.4
20°	1451.4	1456.1	1462.4	1481.4	1484.5
22.5°	1415.0	1421.3	1432.4	1452.9	1457.7
25°	1377.1	1383.4	1397.7	1421.3	1426.1
27.5°	1334.5	1344.0	1361.3	1386.6	1392.9
30°	1290.3	1299.7	1320.3	1347.1	1356.6
32.5°	1242.9	1255.5	1279.2	1309.2	1318.7
35°	1193.9	1208.1	1233.4	1266.6	1279.2
37.5°	1141.8	1157.6	1187.6	1223.9	1239.7
40°	1088.1	1107.1	1138.7	1181.3	1198.7
42.5°	1034.4	1051.8	1091.3	1137.1	1156.0
45°	979.2	999.7	1040.7	1092.9	1111.8
47.5°	922.3	942.8	991.8	1047.1	1064.4
50°	865.4	886.0	941.2	999.7	1020.2
52.5°	803.9	830.7	893.9	952.3	972.8
55°	748.6	773.8	838.6	904.9	927.0
57.5°	685.4	715.4	786.5	856.0	879.7
60°	627.0	658.6	734.4	805.4	829.1
62.5°	567.0	601.7	682.2	754.9	781.7
65°	502.2	544.9	630.1	704.4	731.2
67.5°	443.8	488.0	578.0	653.8	677.5
70°	377.4	431.1	522.7	598.5	625.4
72.5°	320.6	374.3	470.6	544.9	571.7
75°	260.6	319.0	415.3	489.6	513.3
77.5°	200.6	265.3	361.7	418.5	426.4
80°	143.7	211.6	300.1	333.2	344.3
82.5°	101.1	162.7	221.1	243.2	249.5
85°	55.3	107.4	139.0	148.5	148.5
87.5°	23.7	45.8	55.3	56.9	58.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)