

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: P276176

Luminaire Tested: **24CZ2-50-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276176
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-L82765-W2A1-U-6500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4945.7 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

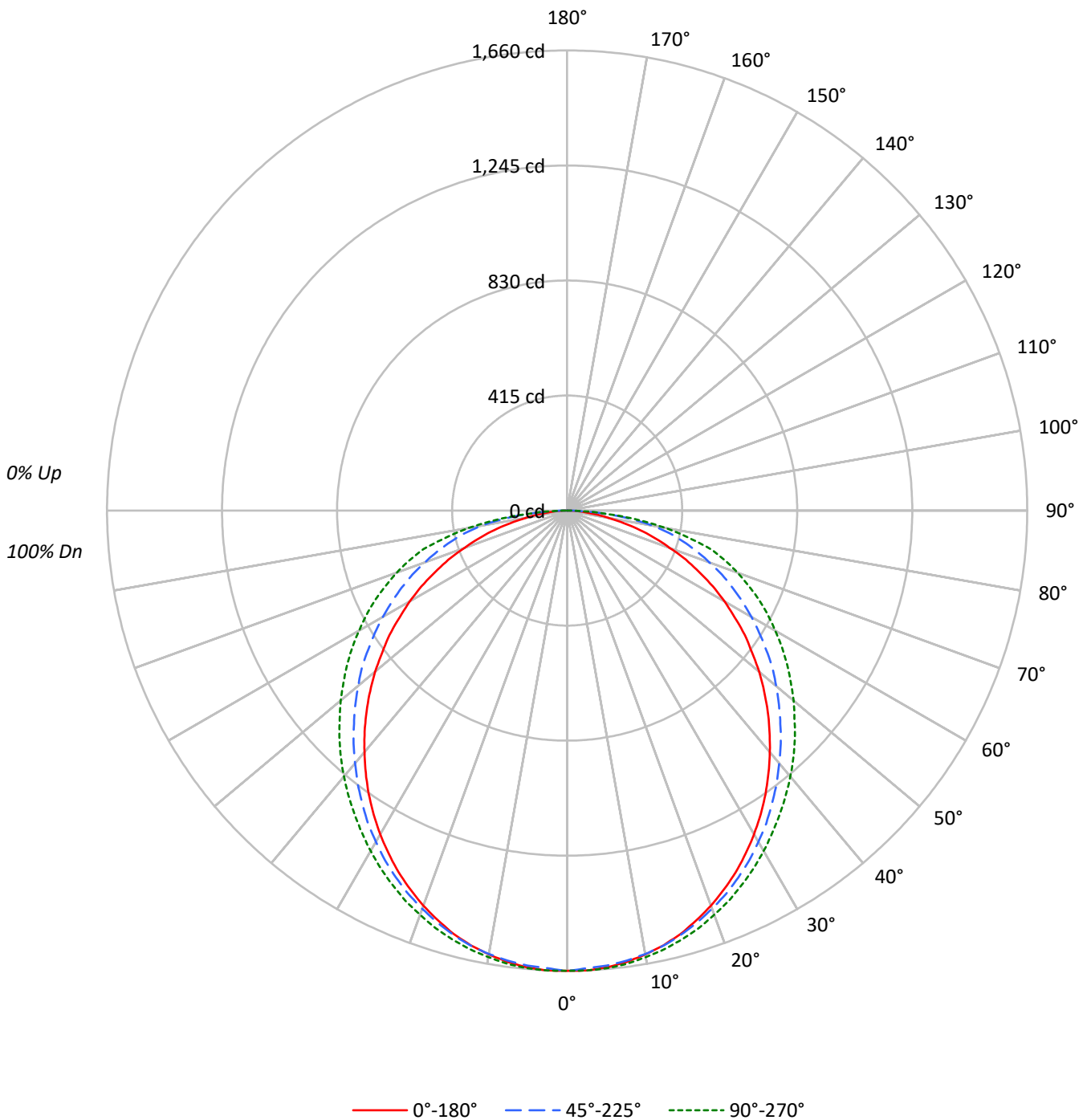
Input Watts (W): 41.478
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2234	2234	2234
5°	2234	2225	2238
10°	2221	2219	2235
15°	2203	2207	2230
20°	2172	2188	2222
25°	2137	2169	2213
30°	2095	2144	2203
35°	2050	2117	2196
40°	1998	2090	2200
45°	1947	2070	2211
50°	1893	2059	2232
55°	1835	2056	2273
60°	1763	2065	2332
65°	1671	2097	2433
70°	1552	2149	2571
75°	1416	2257	2789
80°	1164	2430	2788
85°	892	2243	2396



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.0	3.2
10°-20°	448.3	9.1
20°-30°	674.7	13.6
30°-40°	808.5	16.3
40°-50°	842.6	17.0
50°-60°	783.9	15.9
60°-70°	645.7	13.1
70°-80°	439.7	8.9
80°-90°	145.2	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°	1280.1	25.9
0°-40°	2088.6	42.2
0°-60°	3715.1	75.1
0°-90°	4945.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4945.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1660	1660	1660	1660	1660	
5°	1654	1654	1647	1656	1657	157
15°	1581	1583	1585	1599	1601	445
25°	1439	1446	1461	1486	1490	663
35°	1248	1263	1289	1324	1337	780
45°	1023	1045	1088	1142	1162	789
55°	782	809	876	946	969	697
65°	525	570	659	736	764	521
75°	272	333	434	512	536	287
85°	58	112	145	155	155	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1660.5	1660.5	1660.5	1660.5	1660.5
2.5°	1660.5	1660.5	1652.2	1660.5	1660.5
5°	1653.9	1653.9	1647.3	1655.5	1657.2
7.5°	1642.3	1644.0	1637.4	1647.3	1648.9
10°	1625.8	1627.5	1624.2	1634.1	1635.7
12.5°	1606.0	1607.7	1607.7	1619.2	1620.9
15°	1581.3	1582.9	1584.6	1599.4	1601.1
17.5°	1549.9	1554.9	1558.2	1576.3	1579.6
20°	1516.9	1521.8	1528.4	1548.3	1551.6
22.5°	1478.9	1485.5	1497.1	1518.5	1523.5
25°	1439.3	1445.9	1460.8	1485.5	1490.5
27.5°	1394.8	1404.7	1422.8	1449.2	1455.8
30°	1348.5	1358.4	1379.9	1408.0	1417.9
32.5°	1299.0	1312.2	1337.0	1368.3	1378.2
35°	1247.8	1262.7	1289.1	1323.8	1337.0
37.5°	1193.4	1209.9	1241.2	1279.2	1295.7
40°	1137.3	1157.1	1190.1	1234.6	1252.8
42.5°	1081.1	1099.3	1140.6	1188.4	1208.2
45°	1023.4	1044.8	1087.7	1142.2	1162.0
47.5°	963.9	985.4	1036.6	1094.3	1112.5
50°	904.5	926.0	983.8	1044.8	1066.3
52.5°	840.2	868.2	934.2	995.3	1016.8
55°	782.4	808.8	876.5	945.8	968.9
57.5°	716.4	747.7	822.0	894.6	919.4
60°	655.3	688.3	767.5	841.8	866.6
62.5°	592.6	628.9	713.1	789.0	817.0
65°	524.9	569.5	658.6	736.2	764.2
67.5°	463.8	510.0	604.1	683.3	708.1
70°	394.5	450.6	546.3	625.6	653.6
72.5°	335.1	391.2	491.9	569.5	597.5
75°	272.3	333.4	434.1	511.7	536.4
77.5°	209.6	277.3	378.0	437.4	445.7
80°	150.2	221.2	313.6	348.3	359.8
82.5°	105.6	170.0	231.1	254.2	260.8
85°	57.8	112.2	145.3	155.2	155.2
87.5°	24.8	47.9	57.8	59.4	61.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)