

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: P276084

Luminaire Tested: **24CZ2-50HE-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276084
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: 24CZ2-50HE-UNV-L82765-W2A1-U-5500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4943.7 lumens
Efficiency: N/A
Efficacy: 134.6 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

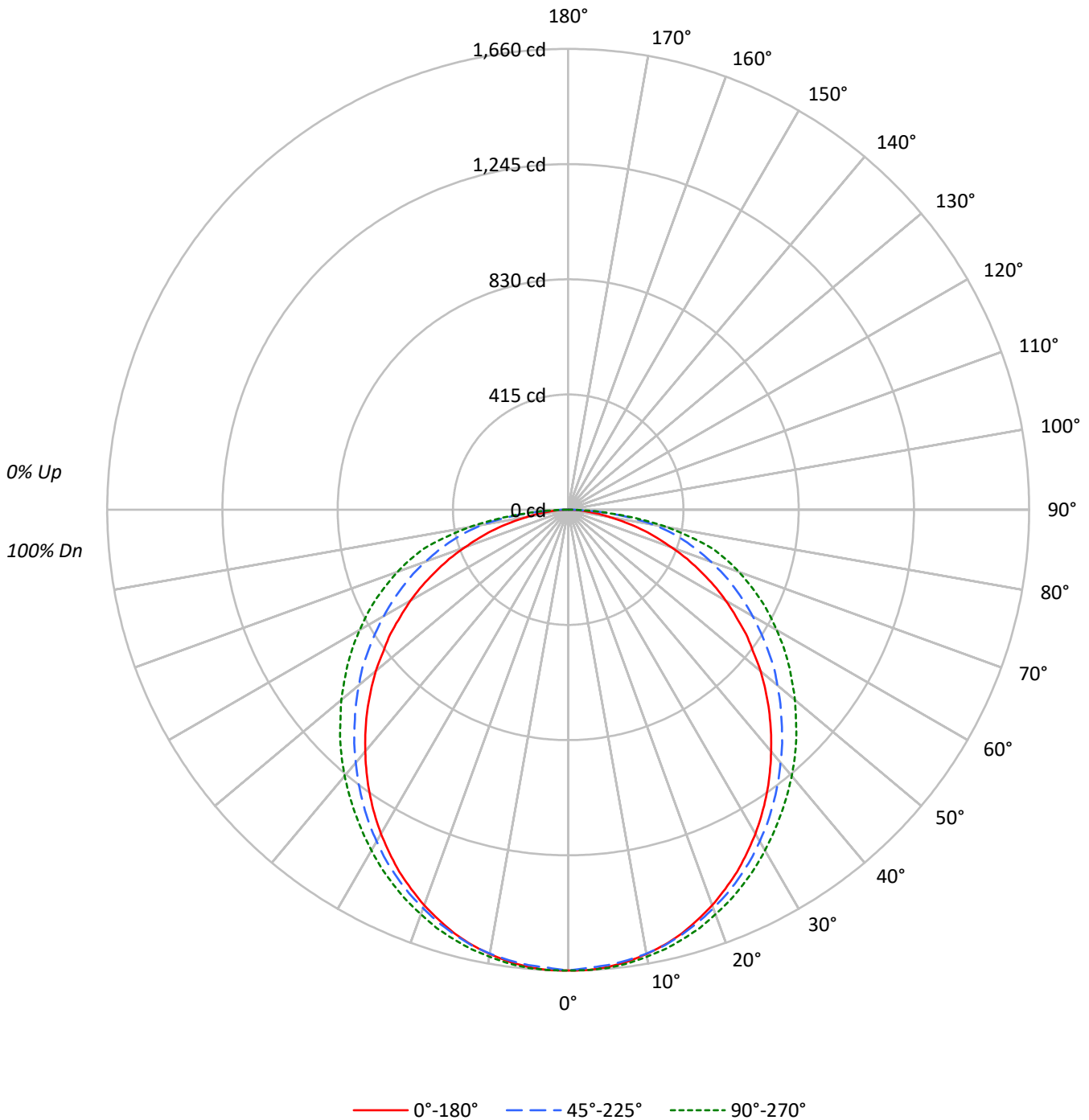
Input Watts (W): 36.735
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2233	2233	2233
5°	2233	2224	2237
10°	2220	2218	2234
15°	2202	2206	2229
20°	2171	2188	2221
25°	2136	2168	2212
30°	2094	2143	2202
35°	2049	2117	2195
40°	1997	2089	2200
45°	1947	2069	2210
50°	1893	2058	2231
55°	1835	2055	2272
60°	1763	2065	2331
65°	1670	2096	2432
70°	1551	2148	2570
75°	1415	2256	2787
80°	1163	2429	2787
85°	891	2242	2394



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.0	3.2
10°-20°	448.2	9.1
20°-30°	674.4	13.6
30°-40°	808.2	16.3
40°-50°	842.3	17.0
50°-60°	783.6	15.9
60°-70°	645.4	13.1
70°-80°	439.5	8.9
80°-90°	145.1	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°	1279.6	25.9
0°-40°	2087.8	42.2
0°-60°	3713.7	75.1
0°-90°	4943.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4943.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1660	1660	1660	1660	1660	
5°	1653	1653	1647	1655	1657	157
15°	1581	1582	1584	1599	1600	445
25°	1439	1445	1460	1485	1490	662
35°	1247	1262	1289	1323	1336	780
45°	1023	1044	1087	1142	1162	789
55°	782	808	876	945	968	697
65°	525	569	658	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°	1659.9	1659.9	1659.9	1659.9	1659.9
2.5°	1659.9	1659.9	1651.6	1659.9	1659.9
5°	1653.3	1653.3	1646.7	1654.9	1656.6
7.5°	1641.7	1643.4	1636.8	1646.7	1648.3
10°	1625.2	1626.9	1623.6	1633.5	1635.1
12.5°	1605.4	1607.1	1607.1	1618.6	1620.3
15°	1580.7	1582.3	1584.0	1598.8	1600.5
17.5°	1549.3	1554.3	1557.6	1575.7	1579.0
20°	1516.3	1521.3	1527.9	1547.7	1551.0
22.5°	1478.4	1485.0	1496.5	1518.0	1522.9
25°	1438.8	1445.4	1460.2	1485.0	1489.9
27.5°	1394.2	1404.1	1422.3	1448.7	1455.3
30°	1348.0	1357.9	1379.4	1407.4	1417.3
32.5°	1298.5	1311.7	1336.5	1367.8	1377.7
35°	1247.4	1262.2	1288.6	1323.3	1336.5
37.5°	1192.9	1209.4	1240.8	1278.7	1295.2
40°	1136.8	1156.6	1189.6	1234.2	1252.3
42.5°	1080.7	1098.9	1140.1	1188.0	1207.8
45°	1023.0	1044.4	1087.3	1141.8	1161.6
47.5°	963.6	985.0	1036.2	1093.9	1112.1
50°	904.2	925.6	983.4	1044.4	1065.9
52.5°	839.8	867.9	933.9	994.9	1016.4
55°	782.1	808.5	876.1	945.4	968.5
57.5°	716.1	747.4	821.7	894.3	919.0
60°	655.0	688.0	767.2	841.5	866.2
62.5°	592.3	628.6	712.8	788.7	816.7
65°	524.7	569.2	658.3	735.9	763.9
67.5°	463.6	509.8	603.9	683.1	707.8
70°	394.3	450.4	546.1	625.3	653.4
72.5°	334.9	391.0	491.7	569.2	597.3
75°	272.2	333.3	433.9	511.5	536.2
77.5°	209.5	277.2	377.8	437.2	445.5
80°	150.1	221.1	313.5	348.1	359.7
82.5°	105.6	169.9	231.0	254.1	260.7
85°	57.7	112.2	145.2	155.1	155.1
87.5°	24.7	47.8	57.7	59.4	61.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)