

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: P275914

Luminaire Tested: **24CZ2-50HE-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275914
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-L83050-W2A1-U-4000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4992.0 lumens
Efficiency: N/A
Efficacy: 136.6 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

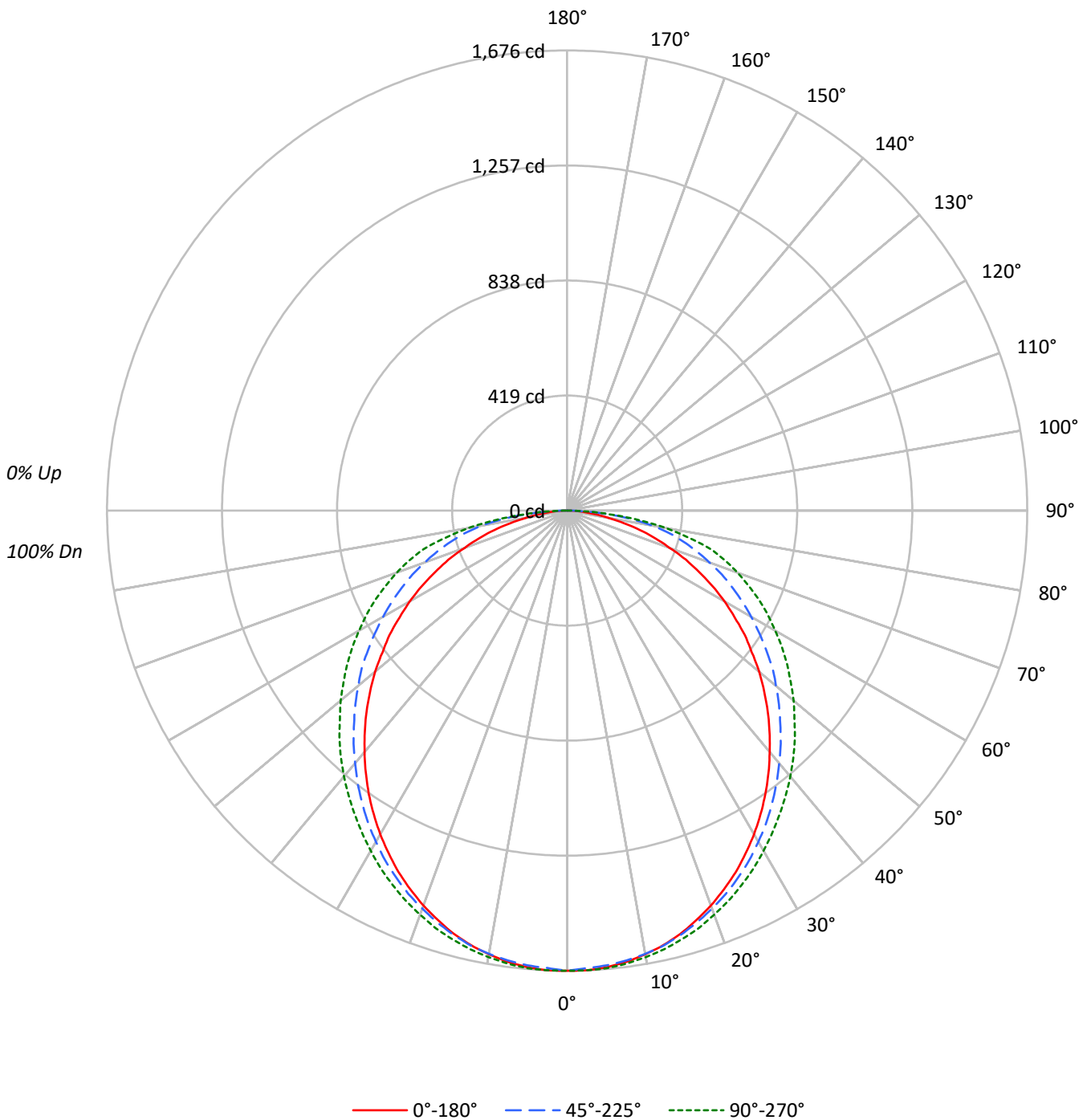
Input Watts (W): 36.549
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2255	2255	2255
5°	2255	2246	2259
10°	2242	2240	2256
15°	2223	2228	2251
20°	2192	2209	2242
25°	2157	2189	2233
30°	2115	2164	2223
35°	2069	2137	2217
40°	2016	2110	2221
45°	1966	2089	2232
50°	1911	2079	2253
55°	1852	2075	2294
60°	1780	2085	2354
65°	1687	2117	2456
70°	1566	2170	2596
75°	1429	2278	2815
80°	1175	2452	2814
85°	900	2263	2418



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.5	3.2
10°-20°	452.5	9.1
20°-30°	681.0	13.6
30°-40°	816.1	16.3
40°-50°	850.5	17.0
50°-60°	791.3	15.9
60°-70°	651.7	13.1
70°-80°	443.8	8.9
80°-90°	146.5	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°	1292.1	25.9
0°-40°	2108.2	42.2
0°-60°	3749.9	75.1
0°-90°	4992.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4992.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1676	1676	1676	1676	1676	
5°	1669	1669	1663	1671	1673	158
15°	1596	1598	1599	1614	1616	450
25°	1453	1460	1474	1499	1504	669
35°	1260	1274	1301	1336	1350	787
45°	1033	1055	1098	1153	1173	797
55°	790	816	885	955	978	704
65°	530	575	665	743	771	526
75°	275	336	438	516	542	290
85°	58	113	147	157	157	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1676.0	1676.0	1676.0	1676.0	1676.0
2.5°	1676.0	1676.0	1667.7	1676.0	1676.0
5°	1669.4	1669.4	1662.7	1671.0	1672.7
7.5°	1657.7	1659.4	1652.7	1662.7	1664.4
10°	1641.1	1642.7	1639.4	1649.4	1651.1
12.5°	1621.1	1622.7	1622.7	1634.4	1636.1
15°	1596.1	1597.7	1599.4	1614.4	1616.1
17.5°	1564.4	1569.4	1572.8	1591.1	1594.4
20°	1531.1	1536.1	1542.8	1562.8	1566.1
22.5°	1492.8	1499.4	1511.1	1532.8	1537.8
25°	1452.8	1459.5	1474.5	1499.4	1504.4
27.5°	1407.8	1417.8	1436.1	1462.8	1469.5
30°	1361.2	1371.2	1392.8	1421.1	1431.1
32.5°	1311.2	1324.5	1349.5	1381.2	1391.2
35°	1259.5	1274.5	1301.2	1336.2	1349.5
37.5°	1204.6	1221.2	1252.9	1291.2	1307.8
40°	1147.9	1167.9	1201.2	1246.2	1264.5
42.5°	1091.3	1109.6	1151.2	1199.6	1219.5
45°	1033.0	1054.6	1097.9	1152.9	1172.9
47.5°	973.0	994.6	1046.3	1104.6	1122.9
50°	913.0	934.7	993.0	1054.6	1076.3
52.5°	848.0	876.3	943.0	1004.6	1026.3
55°	789.7	816.4	884.7	954.6	978.0
57.5°	723.1	754.7	829.7	903.0	928.0
60°	661.4	694.7	774.7	849.7	874.7
62.5°	598.1	634.8	719.7	796.4	824.7
65°	529.8	574.8	664.8	743.1	771.4
67.5°	468.2	514.8	609.8	689.7	714.7
70°	398.2	454.8	551.5	631.4	659.8
72.5°	338.2	394.9	496.5	574.8	603.1
75°	274.9	336.5	438.2	516.5	541.5
77.5°	211.6	279.9	381.5	441.5	449.8
80°	151.6	223.3	316.5	351.5	363.2
82.5°	106.6	171.6	233.2	256.6	263.2
85°	58.3	113.3	146.6	156.6	156.6
87.5°	25.0	48.3	58.3	60.0	61.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)