

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: P276228

Luminaire Tested: **24CZ2-55HE-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276228
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: 24CZ2-55HE-UNV-L92765-W2A1-U-5500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4928.6 lumens
Efficiency: N/A
Efficacy: 119.6 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

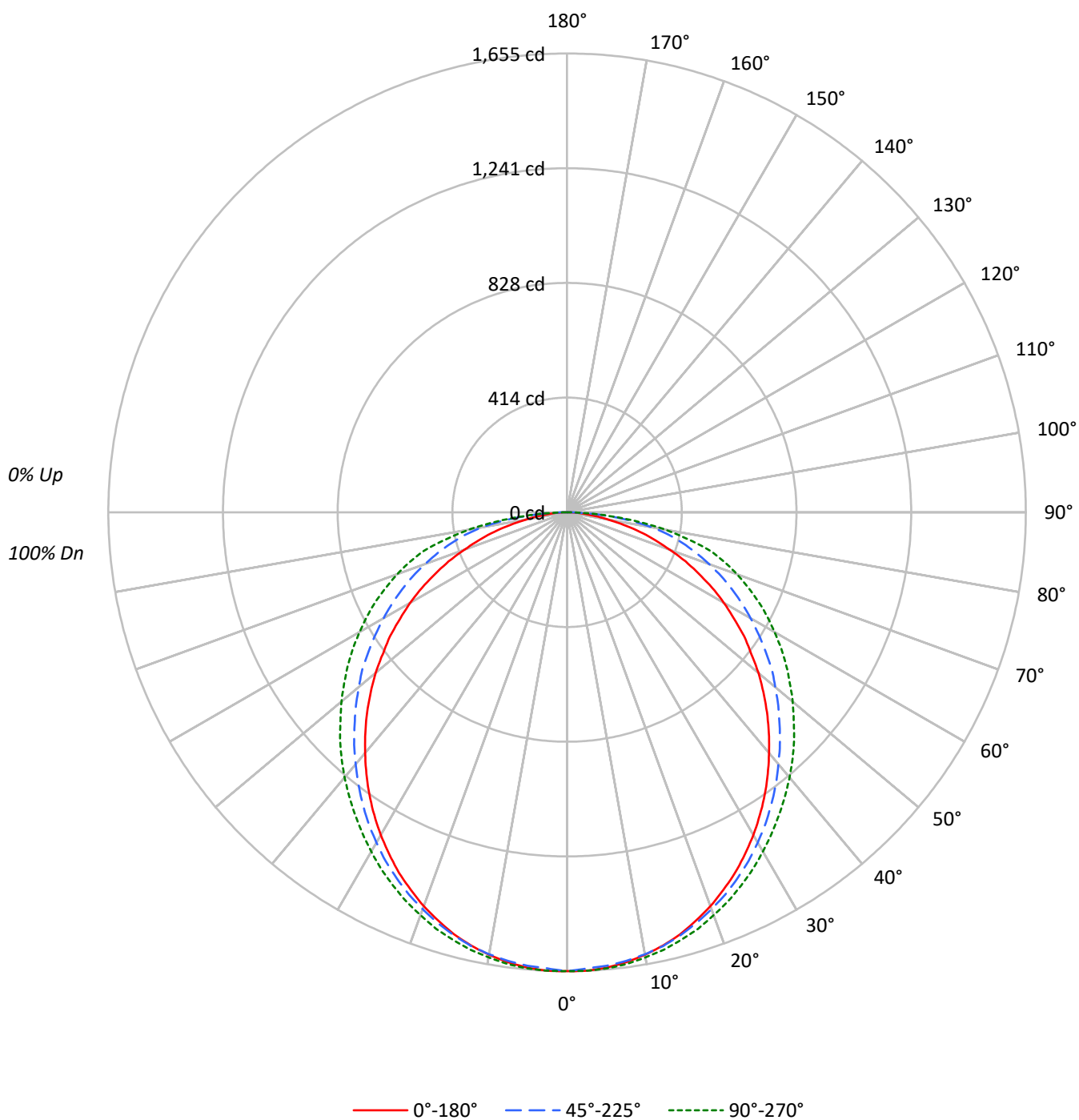
Input Watts (W): 41.199
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	108	103	98	94	105	100	96	92	96	93	89	92	89	87	89	86	84
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	58
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	50
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43
6	69	55	46	39	67	54	45	39	52	44	39	50	44	38	49	43	38
7	64	50	41	35	62	49	40	34	47	40	34	46	39	34	45	38	34
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2227	2227	2227
5°	2226	2217	2231
10°	2214	2211	2227
15°	2195	2200	2223
20°	2165	2181	2214
25°	2129	2161	2205
30°	2088	2136	2195
35°	2043	2110	2189
40°	1991	2083	2193
45°	1940	2063	2203
50°	1887	2052	2224
55°	1829	2049	2265
60°	1757	2058	2324
65°	1665	2089	2425
70°	1546	2142	2563
75°	1411	2249	2779
80°	1160	2421	2779
85°	889	2235	2387



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.5	3.2
10°-20°	446.8	9.1
20°-30°	672.4	13.6
30°-40°	805.8	16.3
40°-50°	839.7	17.0
50°-60°	781.2	15.9
60°-70°	643.4	13.1
70°-80°	438.2	8.9
80°-90°	144.7	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°	1275.7	25.9
0°-40°	2081.4	42.2
0°-60°	3702.3	75.1
0°-90°	4928.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4928.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1655	1655	1655	1655	1655	
5°	1648	1648	1642	1650	1652	156
15°	1576	1578	1579	1594	1596	444
25°	1434	1441	1456	1480	1485	660
35°	1244	1258	1285	1319	1332	777
45°	1020	1041	1084	1138	1158	787
55°	780	806	873	942	966	695
65°	523	568	656	734	762	519
75°	271	332	433	510	535	286
85°	58	112	145	155	155	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1654.8	1654.8	1654.8	1654.8	1654.8
2.5°	1654.8	1654.8	1646.6	1654.8	1654.8
5°	1648.2	1648.2	1641.6	1649.8	1651.5
7.5°	1636.7	1638.3	1631.8	1641.6	1643.3
10°	1620.2	1621.9	1618.6	1628.5	1630.1
12.5°	1600.5	1602.1	1602.1	1613.7	1615.3
15°	1575.8	1577.5	1579.1	1593.9	1595.6
17.5°	1544.6	1549.5	1552.8	1570.9	1574.2
20°	1511.7	1516.6	1523.2	1542.9	1546.2
22.5°	1473.8	1480.4	1491.9	1513.3	1518.3
25°	1434.4	1440.9	1455.7	1480.4	1485.4
27.5°	1389.9	1399.8	1417.9	1444.2	1450.8
30°	1343.9	1353.8	1375.1	1403.1	1413.0
32.5°	1294.5	1307.7	1332.4	1363.6	1373.5
35°	1243.6	1258.4	1284.7	1319.2	1332.4
37.5°	1189.3	1205.7	1237.0	1274.8	1291.3
40°	1133.3	1153.1	1186.0	1230.4	1248.5
42.5°	1077.4	1095.5	1136.6	1184.3	1204.1
45°	1019.8	1041.2	1084.0	1138.3	1158.0
47.5°	960.6	982.0	1033.0	1090.6	1108.7
50°	901.4	922.8	980.4	1041.2	1062.6
52.5°	837.3	865.2	931.0	991.9	1013.3
55°	779.7	806.0	873.4	942.5	965.6
57.5°	713.9	745.1	819.2	891.5	916.2
60°	653.0	685.9	764.9	838.9	863.6
62.5°	590.5	626.7	710.6	786.3	814.2
65°	523.1	567.5	656.3	733.6	761.6
67.5°	462.2	508.3	602.0	681.0	705.7
70°	393.1	449.1	544.5	623.4	651.4
72.5°	333.9	389.8	490.2	567.5	595.5
75°	271.4	332.3	432.6	509.9	534.6
77.5°	208.9	276.3	376.7	435.9	444.1
80°	149.7	220.4	312.5	347.1	358.6
82.5°	105.3	169.4	230.3	253.3	259.9
85°	57.6	111.9	144.8	154.6	154.6
87.5°	24.7	47.7	57.6	59.2	60.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)