

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: P276932

Luminaire Tested: **24CZ2-55HE-RDP-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276932
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1808-918-19)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-55HE-RDP-UNV-L82765-W2A1-U-5000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3636.1 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

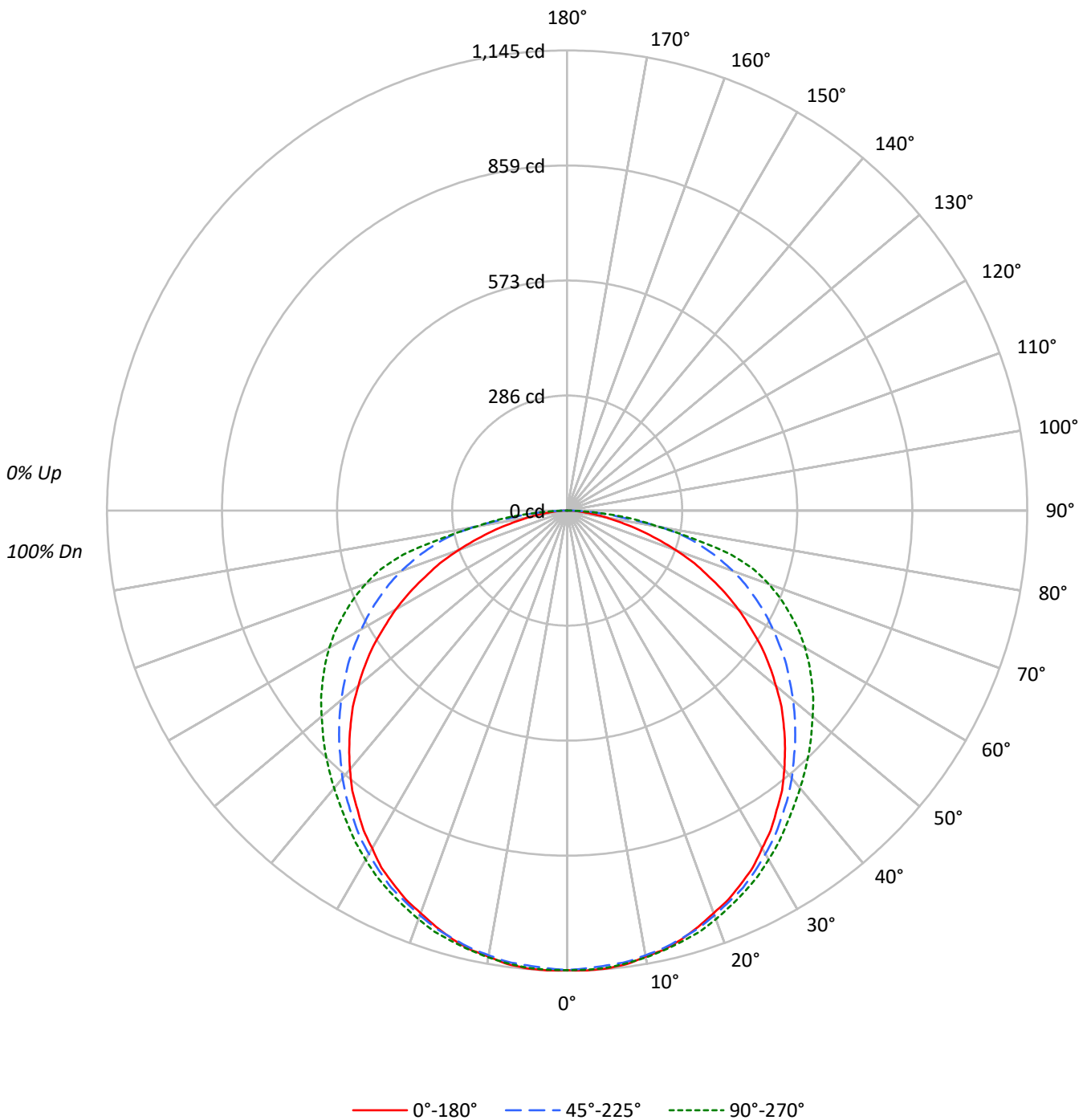
Input Watts (W): 41.013
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	88	86	84	82
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67
3	88	77	68	62	86	76	67	61	72	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1539	1539	1539
5°	1544	1535	1542
10°	1540	1535	1542
15°	1538	1535	1545
20°	1526	1534	1549
25°	1521	1537	1553
30°	1507	1533	1558
35°	1493	1529	1564
40°	1476	1527	1584
45°	1452	1527	1620
50°	1419	1537	1669
55°	1384	1561	1743
60°	1325	1592	1840
65°	1240	1648	1952
70°	1128	1724	2100
75°	957	1819	2194
80°	755	1831	1775
85°	557	1392	1559



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.5	3.0
10°-20°	312.2	8.6
20°-30°	477.4	13.1
30°-40°	583.6	16.0
40°-50°	622.0	17.1
50°-60°	594.7	16.4
60°-70°	503.8	13.9
70°-80°	338.6	9.3
80°-90°	95.5	2.6
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°	898.0	24.7
0°-40°	1481.6	40.7
0°-60°	2698.3	74.2
0°-90°	3636.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3636.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1144	1144	1144	1144	1144	
5°	1144	1142	1136	1142	1142	109
15°	1104	1104	1102	1111	1109	311
25°	1024	1028	1035	1044	1046	472
35°	909	916	931	949	952	569
45°	763	776	803	837	851	588
55°	590	611	666	718	743	525
65°	390	429	518	586	613	387
75°	184	251	350	409	422	197
85°	36	74	90	97	101	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1143.5	1143.5	1143.5	1143.5	1143.5
2.5°	1145.3	1145.3	1139.9	1143.5	1143.5
5°	1143.5	1141.7	1136.2	1141.7	1141.7
7.5°	1138.1	1136.2	1132.6	1138.1	1136.2
10°	1127.2	1127.2	1123.6	1129.0	1129.0
12.5°	1118.2	1116.4	1114.6	1121.8	1120.0
15°	1103.8	1103.8	1102.0	1111.0	1109.2
17.5°	1085.7	1087.6	1089.4	1096.6	1098.4
20°	1065.9	1069.5	1071.3	1082.1	1082.1
22.5°	1047.9	1049.7	1053.3	1064.1	1064.1
25°	1024.4	1028.0	1035.2	1044.3	1046.1
27.5°	1001.0	1002.8	1011.8	1024.4	1026.2
30°	970.3	975.7	986.6	1001.0	1002.8
32.5°	943.3	948.7	961.3	975.7	979.3
35°	909.0	916.2	930.6	948.7	952.3
37.5°	878.3	883.7	901.8	921.6	927.0
40°	840.5	851.3	869.3	892.8	901.8
42.5°	802.6	813.4	835.1	865.7	876.5
45°	762.9	775.5	802.6	836.9	851.3
47.5°	723.2	737.7	768.3	808.0	824.2
50°	678.1	696.2	734.1	779.1	797.2
52.5°	634.9	656.5	698.0	748.5	771.9
55°	589.8	611.4	665.5	717.8	743.1
57.5°	539.3	568.1	627.6	687.2	714.2
60°	492.4	519.4	591.6	656.5	683.6
62.5°	441.9	477.9	555.5	624.0	651.1
65°	389.6	429.2	517.6	586.2	613.2
67.5°	342.7	386.0	479.7	548.3	575.3
70°	286.8	340.9	438.3	506.8	533.9
72.5°	234.5	294.0	395.0	461.7	487.0
75°	184.0	250.7	349.9	409.4	422.0
77.5°	137.1	207.4	303.0	328.2	319.2
80°	97.4	165.9	236.3	223.6	229.1
82.5°	63.1	126.2	146.1	165.9	171.3
85°	36.1	73.9	90.2	97.4	101.0
87.5°	16.2	27.1	36.1	36.1	34.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)