

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: P276758

Luminaire Tested: **24CZ2-55HE-RDP-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276758
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-L83050-W2A1-U-3500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3531.0 lumens
Efficiency: N/A
Efficacy: 88.1 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

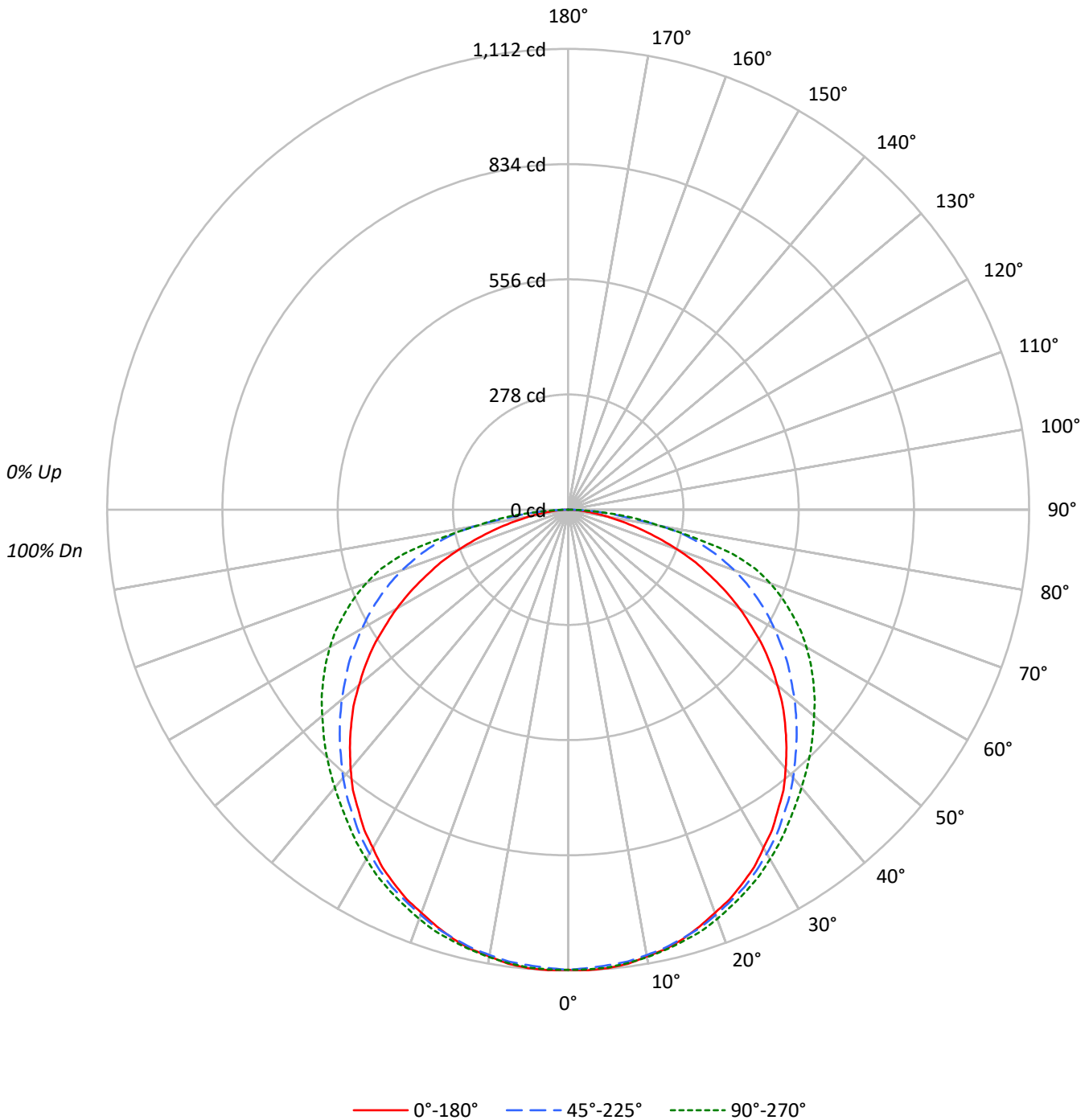
Input Watts (W): 40.083
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1494	1494	1494
5°	1500	1490	1497
10°	1495	1491	1498
15°	1493	1491	1500
20°	1482	1490	1505
25°	1477	1492	1508
30°	1464	1488	1513
35°	1450	1484	1519
40°	1434	1483	1538
45°	1410	1483	1573
50°	1378	1492	1620
55°	1343	1516	1693
60°	1287	1546	1786
65°	1204	1600	1896
70°	1096	1674	2039
75°	928	1766	2130
80°	733	1777	1723
85°	540	1352	1514



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.3	3.0
10°-20°	303.1	8.6
20°-30°	463.6	13.1
30°-40°	566.7	16.0
40°-50°	604.0	17.1
50°-60°	577.5	16.4
60°-70°	489.2	13.9
70°-80°	328.8	9.3
80°-90°	92.7	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°	872.0	24.7
0°-40°	1438.7	40.7
0°-60°	2620.2	74.2
0°-90°	3531.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3531.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1110	1110	1110	1110	1110	
5°	1110	1109	1103	1109	1109	105
15°	1072	1072	1070	1079	1077	302
25°	995	998	1005	1014	1016	459
35°	883	890	904	921	925	553
45°	741	753	779	813	827	571
55°	573	594	646	697	722	510
65°	378	417	503	569	596	376
75°	179	243	340	398	410	191
85°	35	72	88	95	98	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1110.4	1110.4	1110.4	1110.4	1110.4
2.5°	1112.2	1112.2	1106.9	1110.4	1110.4
5°	1110.4	1108.6	1103.4	1108.6	1108.6
7.5°	1105.1	1103.4	1099.9	1105.1	1103.4
10°	1094.6	1094.6	1091.1	1096.4	1096.4
12.5°	1085.9	1084.1	1082.4	1089.4	1087.6
15°	1071.9	1071.9	1070.1	1078.9	1077.1
17.5°	1054.4	1056.1	1057.9	1064.9	1066.6
20°	1035.1	1038.6	1040.3	1050.9	1050.9
22.5°	1017.6	1019.3	1022.8	1033.3	1033.3
25°	994.8	998.3	1005.3	1014.1	1015.8
27.5°	972.0	973.8	982.5	994.8	996.6
30°	942.3	947.5	958.0	972.0	973.8
32.5°	916.0	921.2	933.5	947.5	951.0
35°	882.7	889.7	903.7	921.2	924.7
37.5°	852.9	858.2	875.7	895.0	900.2
40°	816.2	826.7	844.2	867.0	875.7
42.5°	779.4	789.9	810.9	840.7	851.2
45°	740.8	753.1	779.4	812.7	826.7
47.5°	702.3	716.3	746.1	784.6	800.4
50°	658.5	676.0	712.8	756.6	774.1
52.5°	616.5	637.5	677.8	726.8	749.6
55°	572.7	593.7	646.3	697.1	721.6
57.5°	523.7	551.7	609.5	667.3	693.6
60°	478.1	504.4	574.5	637.5	663.8
62.5°	429.1	464.1	539.4	606.0	632.3
65°	378.3	416.8	502.7	569.2	595.5
67.5°	332.8	374.8	465.9	532.4	558.7
70°	278.5	331.0	425.6	492.1	518.4
72.5°	227.7	285.5	383.6	448.4	472.9
75°	178.6	243.4	339.8	397.6	409.8
77.5°	133.1	201.4	294.2	318.8	310.0
80°	94.6	161.1	229.4	217.2	222.4
82.5°	61.3	122.6	141.9	161.1	166.4
85°	35.0	71.8	87.6	94.6	98.1
87.5°	15.8	26.3	35.0	35.0	33.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)