

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: P276930

Luminaire Tested: **24CZ2-55HE-RDP-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276930
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-4000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3524.8 lumens
Efficiency: N/A
Efficacy: 86.9 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

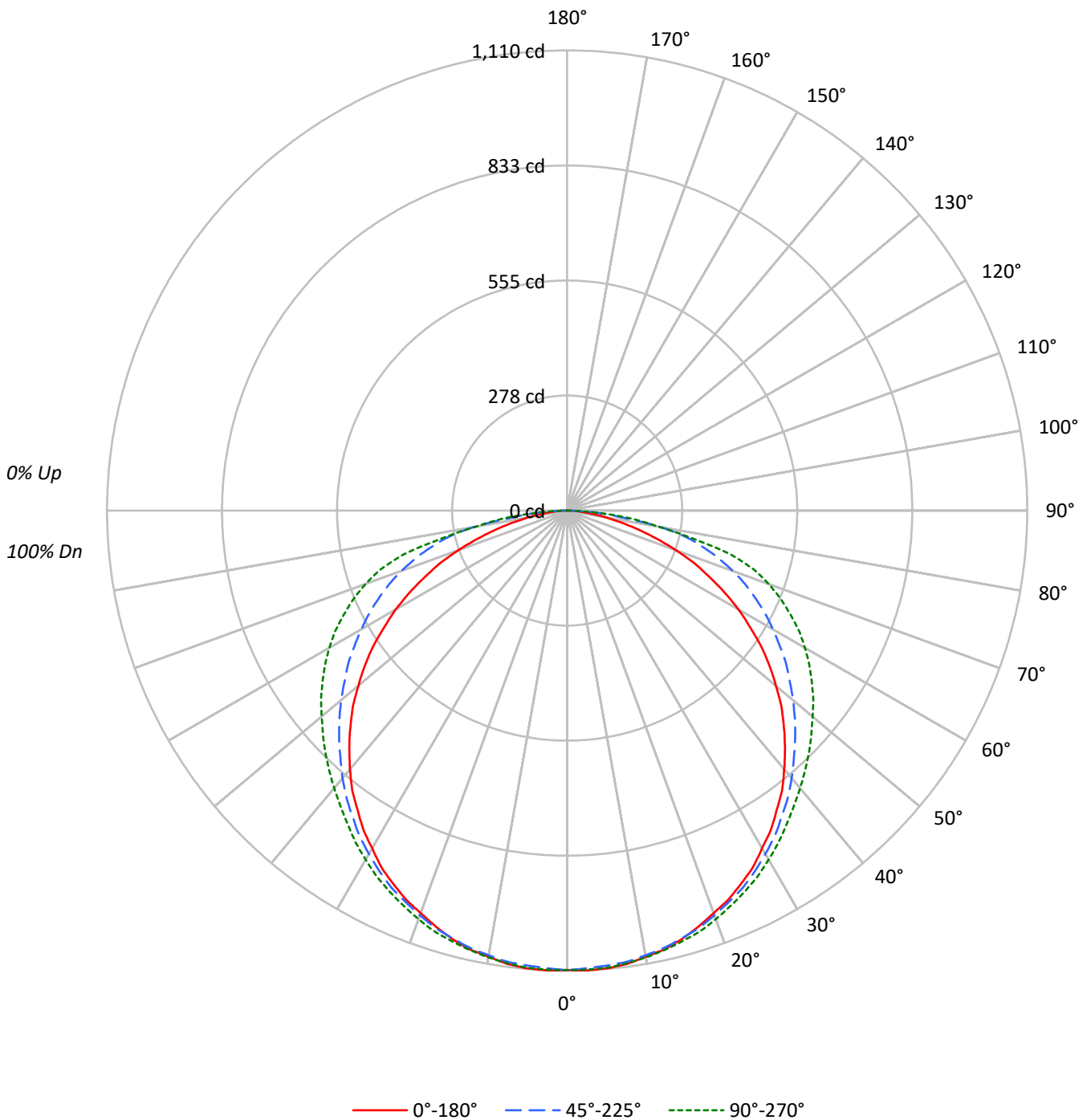
Input Watts (W): 40.548
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1491	1491	1491
5°	1497	1488	1495
10°	1493	1488	1495
15°	1490	1488	1498
20°	1480	1487	1502
25°	1474	1490	1505
30°	1461	1486	1510
35°	1447	1482	1516
40°	1431	1480	1535
45°	1407	1480	1570
50°	1376	1490	1618
55°	1341	1513	1690
60°	1284	1543	1783
65°	1202	1598	1892
70°	1094	1671	2036
75°	927	1763	2127
80°	731	1774	1720
85°	540	1349	1511



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.1	3.0
10°-20°	302.6	8.6
20°-30°	462.8	13.1
30°-40°	565.7	16.0
40°-50°	602.9	17.1
50°-60°	576.5	16.4
60°-70°	488.4	13.9
70°-80°	328.2	9.3
80°-90°	92.6	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°	870.5	24.7
0°-40°	1436.2	40.7
0°-60°	2615.6	74.2
0°-90°	3524.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3524.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1108	1108	1108	1108	1108	
5°	1108	1107	1102	1107	1107	105
15°	1070	1070	1068	1077	1075	302
25°	993	997	1004	1012	1014	458
35°	881	888	902	920	923	552
45°	740	752	778	811	825	570
55°	572	593	645	696	720	509
65°	378	416	502	568	594	375
75°	178	243	339	397	409	191
85°	35	72	87	94	98	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1108.4	1108.4	1108.4	1108.4	1108.4
2.5°	1110.2	1110.2	1105.0	1108.4	1108.4
5°	1108.4	1106.7	1101.5	1106.7	1106.7
7.5°	1103.2	1101.5	1098.0	1103.2	1101.5
10°	1092.7	1092.7	1089.2	1094.5	1094.5
12.5°	1084.0	1082.2	1080.5	1087.5	1085.7
15°	1070.0	1070.0	1068.2	1077.0	1075.2
17.5°	1052.5	1054.2	1056.0	1063.0	1064.7
20°	1033.3	1036.8	1038.5	1049.0	1049.0
22.5°	1015.8	1017.5	1021.0	1031.5	1031.5
25°	993.1	996.6	1003.5	1012.3	1014.0
27.5°	970.3	972.1	980.8	993.1	994.8
30°	940.6	945.9	956.3	970.3	972.1
32.5°	914.4	919.6	931.9	945.9	949.3
35°	881.2	888.2	902.1	919.6	923.1
37.5°	851.4	856.7	874.2	893.4	898.6
40°	814.7	825.2	842.7	865.4	874.2
42.5°	778.0	788.5	809.5	839.2	849.7
45°	739.5	751.8	778.0	811.2	825.2
47.5°	701.1	715.1	744.8	783.3	799.0
50°	657.4	674.9	711.6	755.3	772.8
52.5°	615.4	636.4	676.6	725.6	748.3
55°	571.7	592.7	645.1	695.8	720.3
57.5°	522.8	550.7	608.4	666.1	692.3
60°	477.3	503.5	573.5	636.4	662.6
62.5°	428.3	463.3	538.5	604.9	631.2
65°	377.6	416.1	501.8	568.2	594.4
67.5°	332.2	374.1	465.1	531.5	557.7
70°	278.0	330.4	424.8	491.3	517.5
72.5°	227.3	285.0	382.9	447.6	472.1
75°	178.3	243.0	339.2	396.9	409.1
77.5°	132.9	201.1	293.7	318.2	309.5
80°	94.4	160.8	229.0	216.8	222.0
82.5°	61.2	122.4	141.6	160.8	166.1
85°	35.0	71.7	87.4	94.4	97.9
87.5°	15.7	26.2	35.0	35.0	33.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)