

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: P276759

Luminaire Tested: **24CZ2-55HE-RDP-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276759
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-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: 3708.0 lumens
Efficiency: N/A
Efficacy: 90.4 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

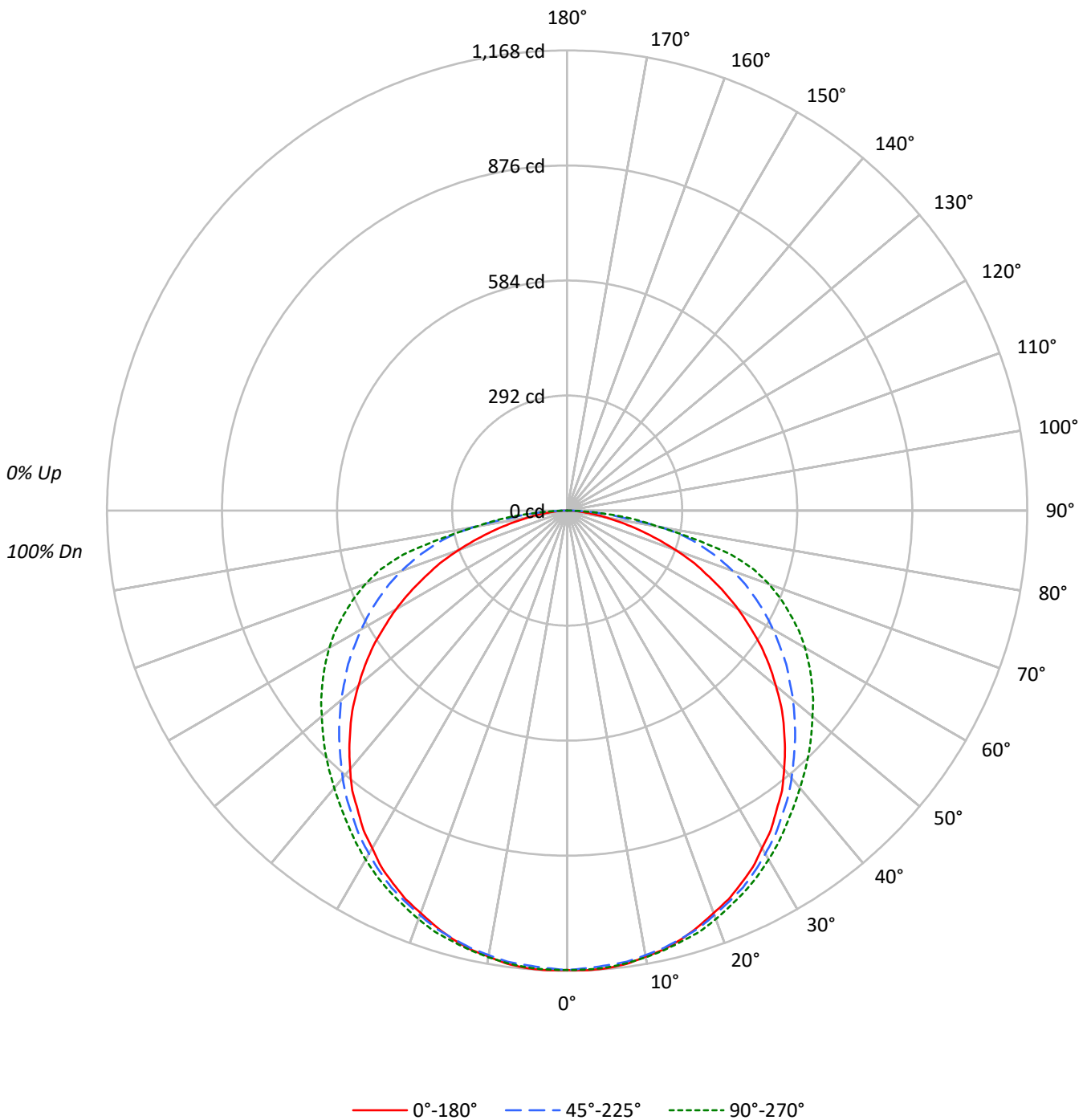
Input Watts (W): 41.004909
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1569	1569	1569
5°	1575	1565	1572
10°	1570	1565	1573
15°	1568	1565	1576
20°	1556	1564	1580
25°	1551	1567	1584
30°	1537	1563	1589
35°	1523	1559	1595
40°	1505	1557	1615
45°	1480	1557	1652
50°	1447	1567	1702
55°	1411	1592	1778
60°	1351	1623	1876
65°	1265	1681	1991
70°	1150	1758	2142
75°	975	1855	2237
80°	769	1867	1810
85°	568	1420	1590



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.6	3.0
10°-20°	318.3	8.6
20°-30°	486.8	13.1
30°-40°	595.1	16.0
40°-50°	634.3	17.1
50°-60°	606.5	16.4
60°-70°	513.7	13.9
70°-80°	345.3	9.3
80°-90°	97.4	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°	915.8	24.7
0°-40°	1510.9	40.7
0°-60°	2751.6	74.2
0°-90°	3708.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3708.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1166	1166	1166	1166	1166	
5°	1166	1164	1159	1164	1164	111
15°	1126	1126	1124	1133	1131	317
25°	1045	1048	1056	1065	1067	481
35°	927	934	949	967	971	581
45°	778	791	818	853	868	600
55°	601	624	679	732	758	536
65°	397	438	528	598	625	394
75°	188	256	357	418	430	201
85°	37	75	92	99	103	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1166.1	1166.1	1166.1	1166.1	1166.1
2.5°	1167.9	1167.9	1162.4	1166.1	1166.1
5°	1166.1	1164.2	1158.7	1164.2	1164.2
7.5°	1160.5	1158.7	1155.0	1160.5	1158.7
10°	1149.5	1149.5	1145.8	1151.3	1151.3
12.5°	1140.3	1138.5	1136.6	1144.0	1142.2
15°	1125.6	1125.6	1123.8	1133.0	1131.1
17.5°	1107.2	1109.0	1110.9	1118.2	1120.1
20°	1087.0	1090.7	1092.5	1103.5	1103.5
22.5°	1068.6	1070.4	1074.1	1085.1	1085.1
25°	1044.7	1048.4	1055.7	1064.9	1066.7
27.5°	1020.8	1022.6	1031.8	1044.7	1046.5
30°	989.5	995.0	1006.0	1020.8	1022.6
32.5°	961.9	967.4	980.3	995.0	998.7
35°	927.0	934.3	949.0	967.4	971.1
37.5°	895.7	901.2	919.6	939.8	945.4
40°	857.1	868.1	886.5	910.4	919.6
42.5°	818.4	829.5	851.6	882.8	893.9
45°	778.0	790.9	818.4	853.4	868.1
47.5°	737.5	752.2	783.5	824.0	840.5
50°	691.5	709.9	748.6	794.5	812.9
52.5°	647.4	669.5	711.8	763.3	787.2
55°	601.4	623.5	678.7	732.0	757.8
57.5°	549.9	579.4	640.0	700.7	728.3
60°	502.1	529.7	603.3	669.5	697.1
62.5°	450.6	487.4	566.5	636.4	664.0
65°	397.3	437.7	527.9	597.7	625.3
67.5°	349.5	393.6	489.2	559.1	586.7
70°	292.4	347.6	446.9	516.8	544.4
72.5°	239.1	299.8	402.8	470.8	496.6
75°	187.6	255.7	356.8	417.5	430.4
77.5°	139.8	211.5	309.0	334.7	325.5
80°	99.3	169.2	240.9	228.1	233.6
82.5°	64.4	128.7	149.0	169.2	174.7
85°	36.8	75.4	92.0	99.3	103.0
87.5°	16.6	27.6	36.8	36.8	34.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)