

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: P276934

Luminaire Tested: **24CZ2-55HE-RDP-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276934
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-5700K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3681.3 lumens
Efficiency: N/A
Efficacy: 89.4 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

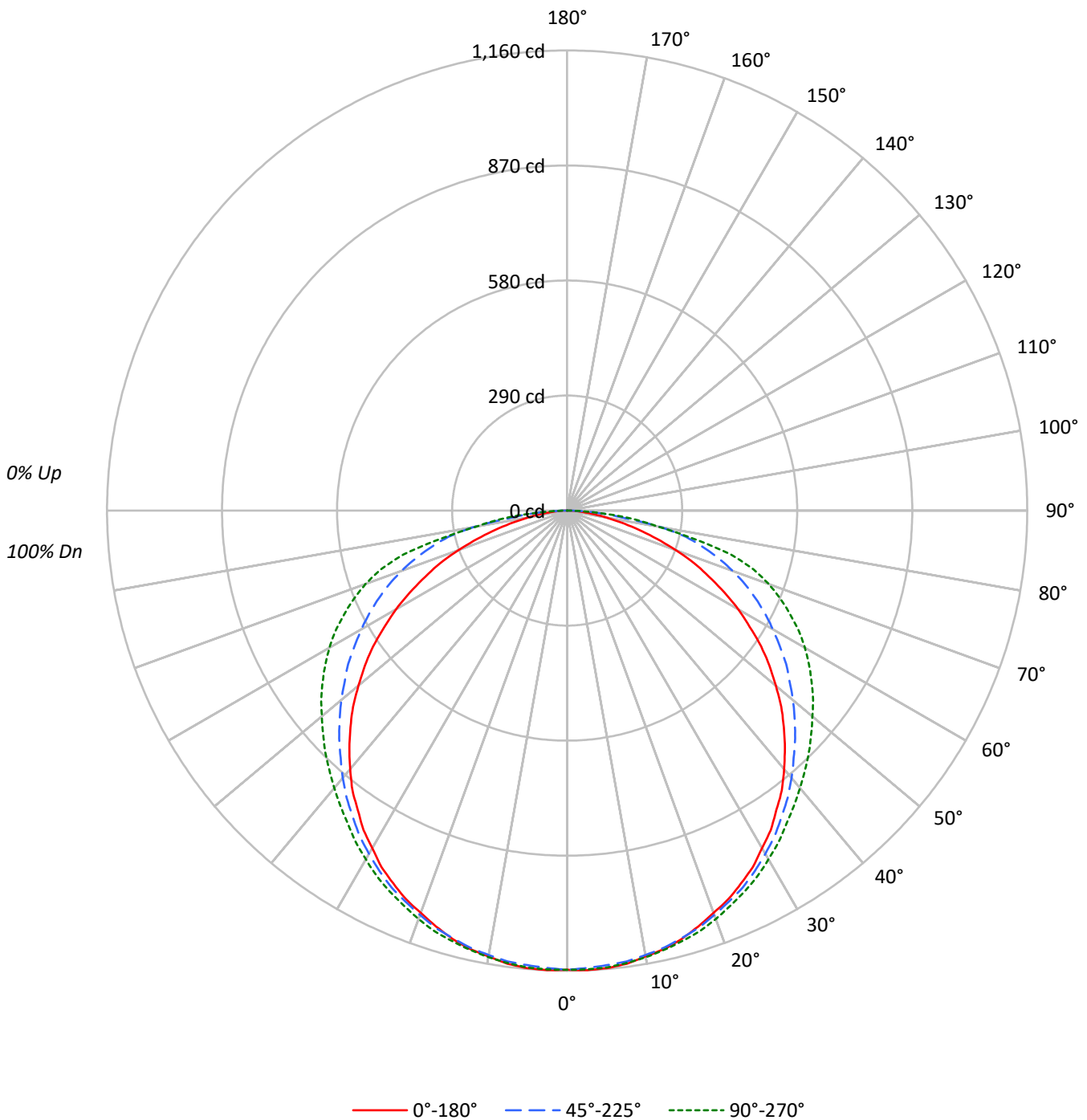
Input Watts (W): 41.199
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1558	1558	1558
5°	1564	1554	1561
10°	1559	1554	1562
15°	1557	1554	1564
20°	1545	1553	1569
25°	1540	1556	1572
30°	1526	1552	1577
35°	1512	1548	1584
40°	1495	1546	1604
45°	1470	1546	1640
50°	1437	1556	1689
55°	1401	1581	1765
60°	1341	1612	1862
65°	1256	1669	1976
70°	1142	1745	2126
75°	968	1841	2221
80°	764	1853	1797
85°	563	1409	1579



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.8	3.0
10°-20°	316.1	8.6
20°-30°	483.3	13.1
30°-40°	590.8	16.0
40°-50°	629.7	17.1
50°-60°	602.1	16.4
60°-70°	510.0	13.9
70°-80°	342.8	9.3
80°-90°	96.7	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°	909.2	24.7
0°-40°	1500.0	40.7
0°-60°	2731.8	74.2
0°-90°	3681.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3681.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1158	1158	1158	1158	1158	
5°	1158	1156	1150	1156	1156	110
15°	1118	1118	1116	1125	1123	315
25°	1037	1041	1048	1057	1059	478
35°	920	928	942	960	964	577
45°	772	785	813	847	862	596
55°	597	619	674	727	752	532
65°	394	435	524	593	621	392
75°	186	254	354	414	427	199
85°	36	75	91	99	102	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1157.7	1157.7	1157.7	1157.7	1157.7
2.5°	1159.5	1159.5	1154.0	1157.7	1157.7
5°	1157.7	1155.8	1150.4	1155.8	1155.8
7.5°	1152.2	1150.4	1146.7	1152.2	1150.4
10°	1141.2	1141.2	1137.6	1143.1	1143.1
12.5°	1132.1	1130.3	1128.5	1135.8	1133.9
15°	1117.5	1117.5	1115.7	1124.8	1123.0
17.5°	1099.2	1101.1	1102.9	1110.2	1112.0
20°	1079.2	1082.8	1084.6	1095.6	1095.6
22.5°	1060.9	1062.7	1066.4	1077.3	1077.3
25°	1037.2	1040.8	1048.1	1057.2	1059.1
27.5°	1013.4	1015.2	1024.4	1037.2	1039.0
30°	982.4	987.9	998.8	1013.4	1015.2
32.5°	955.0	960.5	973.2	987.9	991.5
35°	920.3	927.6	942.2	960.5	964.1
37.5°	889.2	894.7	913.0	933.1	938.6
40°	850.9	861.9	880.1	903.9	913.0
42.5°	812.6	823.5	845.4	876.5	887.4
45°	772.4	785.2	812.6	847.3	861.9
47.5°	732.2	746.8	777.9	818.0	834.5
50°	686.6	704.8	743.2	788.8	807.1
52.5°	642.7	664.7	706.7	757.8	781.5
55°	597.1	619.0	673.8	726.7	752.3
57.5°	546.0	575.2	635.4	695.7	723.1
60°	498.5	525.9	598.9	664.7	692.0
62.5°	447.4	483.9	562.4	631.8	659.2
65°	394.4	434.6	524.1	593.4	620.8
67.5°	346.9	390.8	485.7	555.1	582.5
70°	290.3	345.1	443.7	513.1	540.5
72.5°	237.4	297.6	399.9	467.4	493.0
75°	186.2	253.8	354.2	414.5	427.3
77.5°	138.8	210.0	306.8	332.3	323.2
80°	98.6	168.0	239.2	226.4	231.9
82.5°	63.9	127.8	147.9	168.0	173.5
85°	36.5	74.9	91.3	98.6	102.3
87.5°	16.4	27.4	36.5	36.5	34.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)