

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: P276760

Luminaire Tested: **24CZ2-55HE-RDP-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276760
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-4500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3743.0 lumens
Efficiency: N/A
Efficacy: 89.0 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

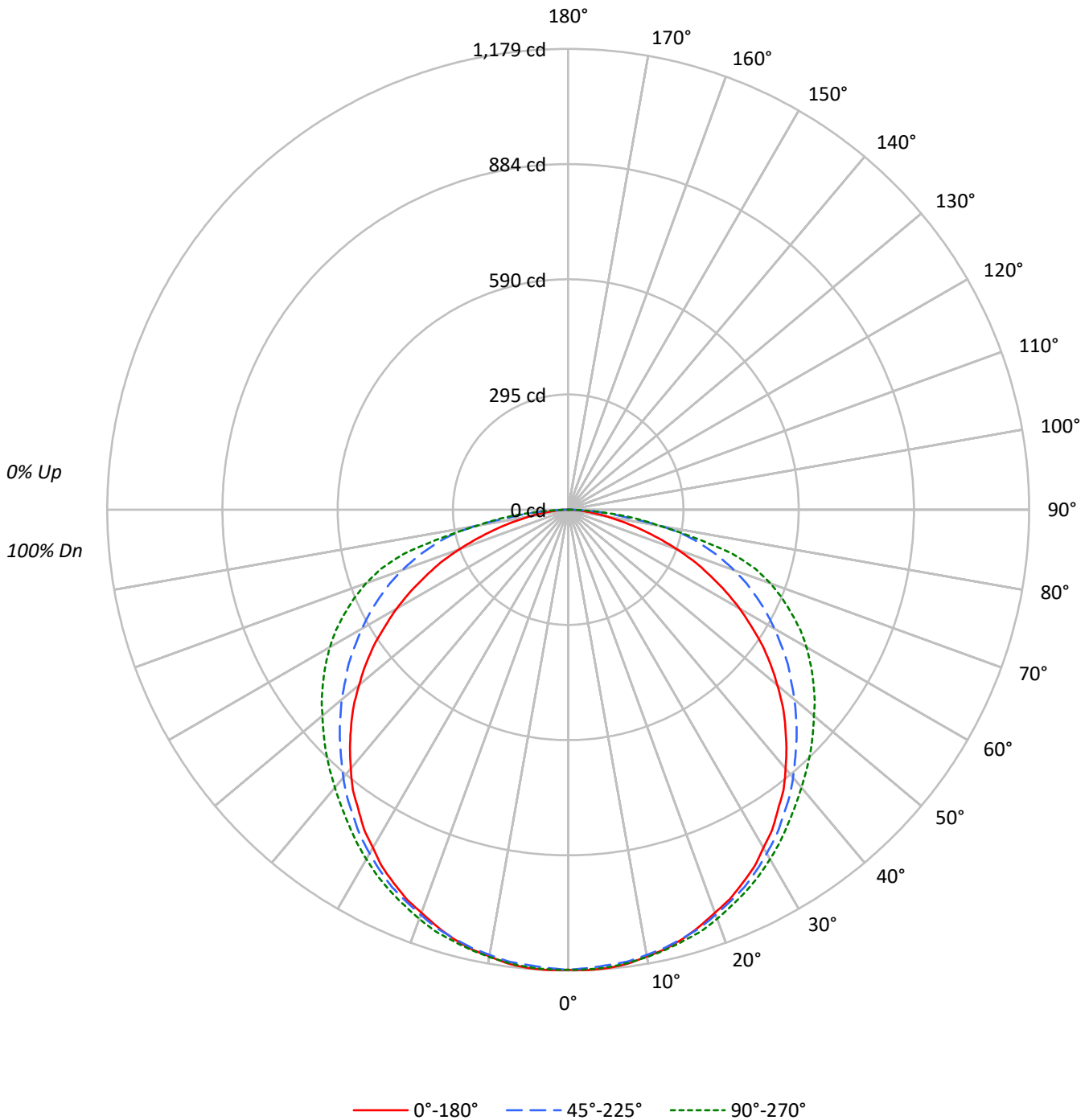
Input Watts (W): 42.047067
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1584	1584	1584
5°	1590	1580	1587
10°	1585	1580	1588
15°	1583	1580	1590
20°	1571	1579	1595
25°	1565	1582	1599
30°	1552	1578	1604
35°	1537	1574	1610
40°	1520	1572	1630
45°	1494	1572	1667
50°	1461	1582	1718
55°	1424	1607	1794
60°	1364	1639	1893
65°	1277	1696	2010
70°	1161	1775	2162
75°	985	1873	2258
80°	777	1884	1827
85°	573	1433	1606



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.7	3.0
10°-20°	321.3	8.6
20°-30°	491.4	13.1
30°-40°	600.7	16.0
40°-50°	640.3	17.1
50°-60°	612.2	16.4
60°-70°	518.6	13.9
70°-80°	348.5	9.3
80°-90°	98.3	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°	924.4	24.7
0°-40°	1525.1	40.7
0°-60°	2777.6	74.2
0°-90°	3743.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3743.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1177	1177	1177	1177	1177	
5°	1177	1175	1170	1175	1175	112
15°	1136	1136	1134	1144	1142	320
25°	1054	1058	1066	1075	1077	486
35°	936	943	958	977	980	586
45°	785	798	826	861	876	606
55°	607	629	685	739	765	541
65°	401	442	533	603	631	398
75°	189	258	360	421	434	203
85°	37	76	93	100	104	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1177.1	1177.1	1177.1	1177.1	1177.1
2.5°	1178.9	1178.9	1173.4	1177.1	1177.1
5°	1177.1	1175.2	1169.6	1175.2	1175.2
7.5°	1171.5	1169.6	1165.9	1171.5	1169.6
10°	1160.4	1160.4	1156.6	1162.2	1162.2
12.5°	1151.1	1149.2	1147.4	1154.8	1152.9
15°	1136.2	1136.2	1134.4	1143.6	1141.8
17.5°	1117.7	1119.5	1121.4	1128.8	1130.7
20°	1097.2	1100.9	1102.8	1113.9	1113.9
22.5°	1078.7	1080.5	1084.2	1095.4	1095.4
25°	1054.5	1058.2	1065.7	1075.0	1076.8
27.5°	1030.4	1032.3	1041.5	1054.5	1056.4
30°	998.8	1004.4	1015.5	1030.4	1032.3
32.5°	971.0	976.6	989.6	1004.4	1008.1
35°	935.7	943.1	958.0	976.6	980.3
37.5°	904.2	909.7	928.3	948.7	954.3
40°	865.2	876.3	894.9	919.0	928.3
42.5°	826.2	837.3	859.6	891.2	902.3
45°	785.3	798.3	826.2	861.4	876.3
47.5°	744.5	759.3	790.9	831.7	848.5
50°	698.1	716.6	755.6	802.0	820.6
52.5°	653.5	675.8	718.5	770.5	794.6
55°	607.1	629.4	685.1	738.9	764.9
57.5°	555.1	584.8	646.1	707.4	735.2
60°	506.8	534.7	609.0	675.8	703.6
62.5°	454.9	492.0	571.8	642.4	670.2
65°	401.0	441.9	532.8	603.4	631.2
67.5°	352.7	397.3	493.8	564.4	592.2
70°	295.2	350.9	451.1	521.7	549.5
72.5°	241.4	302.6	406.6	475.3	501.3
75°	189.4	258.1	360.2	421.4	434.4
77.5°	141.1	213.5	311.9	337.9	328.6
80°	100.3	170.8	243.2	230.2	235.8
82.5°	65.0	130.0	150.4	170.8	176.4
85°	37.1	76.1	92.8	100.3	104.0
87.5°	16.7	27.8	37.1	37.1	35.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)