

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: P275583

Luminaire Tested: **14CZ2-44-S-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275583
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-40)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-44-S-UNV-L83050-W2A1-U-4000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4562.0 lumens
Efficiency: N/A
Efficacy: 125.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

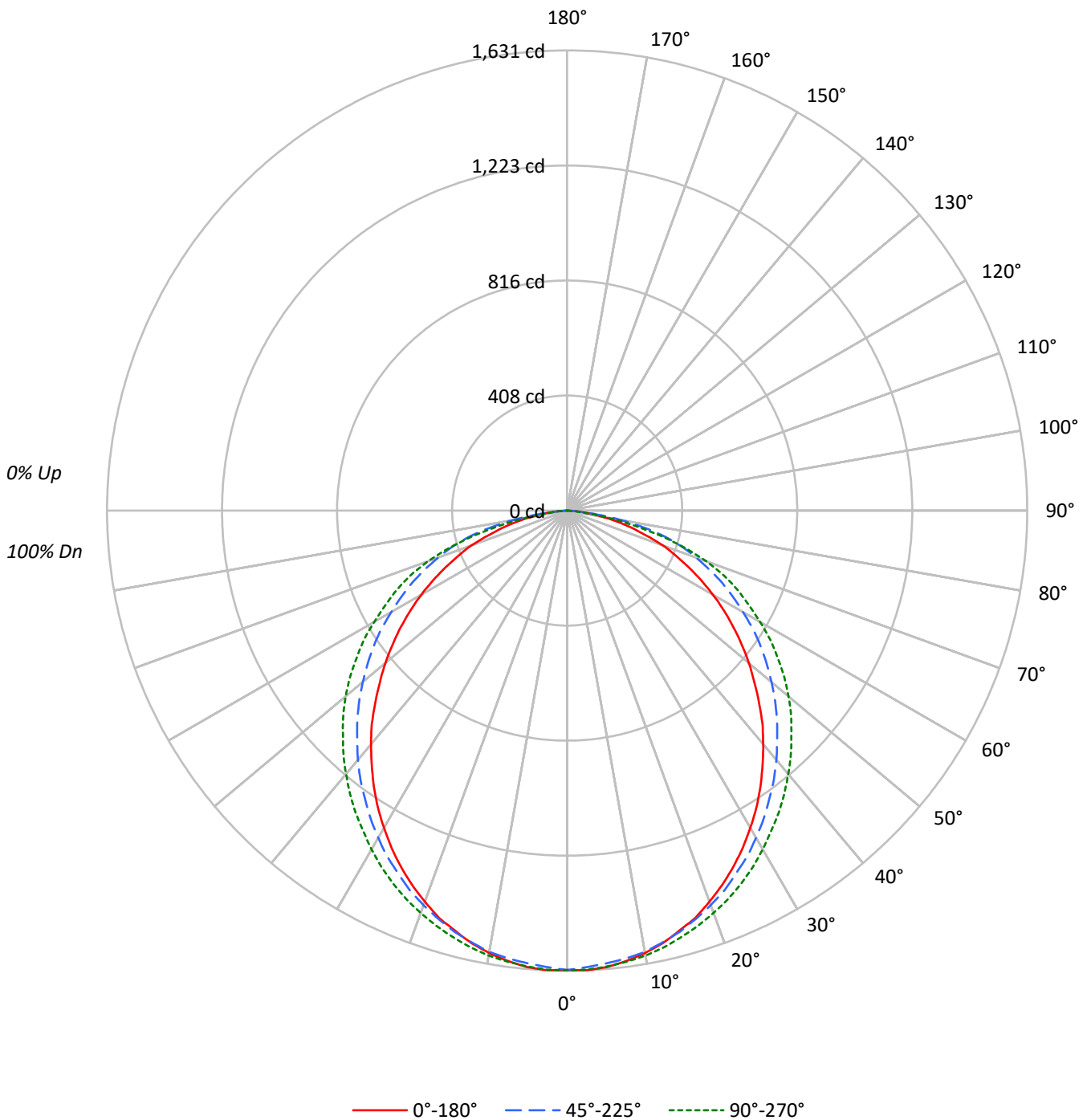
Input Watts (W): 36.456
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	104	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86	84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4383	4383	4383
5°	4387	4350	4381
10°	4351	4339	4376
15°	4291	4304	4361
20°	4223	4262	4346
25°	4137	4211	4332
30°	4034	4161	4308
35°	3923	4102	4295
40°	3798	4052	4283
45°	3658	4003	4278
50°	3522	3958	4289
55°	3375	3926	4276
60°	3214	3871	4249
65°	3025	3860	4249
70°	2847	3826	4129
75°	2469	3739	3528
80°	1998	3014	2348
85°	1328	1047	698



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.8	3.4
10°-20°	437.6	9.6
20°-30°	656.4	14.4
30°-40°	783.0	17.2
40°-50°	809.5	17.7
50°-60°	739.1	16.2
60°-70°	581.6	12.7
70°-80°	338.6	7.4
80°-90°	62.4	1.4
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°	1247.8	27.4
0°-40°	2030.8	44.5
0°-60°	3579.4	78.5
0°-90°	4562.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4562.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1629	1629	1629	1629	1629	
5°	1624	1620	1610	1624	1622	154
15°	1540	1543	1545	1565	1565	435
25°	1393	1400	1418	1452	1459	641
35°	1194	1210	1249	1296	1307	747
45°	961	993	1052	1111	1124	742
55°	719	758	837	898	912	643
65°	475	525	606	654	667	472
75°	238	294	360	353	339	252
85°	43	61	34	27	23	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1628.6	1628.6	1628.6	1628.6	1628.6
2.5°	1630.8	1626.3	1619.5	1630.8	1628.6
5°	1624.0	1619.5	1610.5	1624.0	1621.8
7.5°	1610.5	1605.9	1601.4	1615.0	1612.7
10°	1592.4	1590.1	1587.8	1603.7	1601.4
12.5°	1569.7	1569.7	1567.5	1585.6	1585.6
15°	1540.3	1542.6	1544.9	1565.2	1565.2
17.5°	1513.2	1510.9	1517.7	1540.3	1542.6
20°	1474.8	1479.3	1488.3	1515.5	1517.7
22.5°	1436.3	1440.8	1456.7	1483.8	1490.6
25°	1393.3	1400.1	1418.2	1452.1	1458.9
27.5°	1348.1	1357.1	1382.0	1418.2	1425.0
30°	1298.3	1311.9	1339.0	1379.8	1386.5
32.5°	1248.6	1262.1	1296.1	1336.8	1345.8
35°	1194.3	1210.1	1248.6	1296.1	1307.4
37.5°	1137.7	1158.1	1203.3	1250.8	1264.4
40°	1081.2	1103.8	1153.6	1203.3	1219.2
42.5°	1024.6	1047.3	1101.5	1158.1	1173.9
45°	961.3	993.0	1051.8	1110.6	1124.2
47.5°	900.2	934.2	999.8	1058.6	1076.7
50°	841.4	875.4	945.5	1006.5	1024.6
52.5°	780.4	816.5	891.2	954.5	970.3
55°	719.3	757.7	836.9	898.0	911.5
57.5°	658.2	698.9	780.4	839.2	855.0
60°	597.1	640.1	719.3	778.1	789.4
62.5°	536.1	581.3	662.7	714.8	726.1
65°	475.0	524.8	606.2	653.7	667.3
67.5°	416.2	465.9	545.1	590.4	601.7
70°	361.9	407.1	486.3	520.2	524.8
72.5°	294.0	350.6	427.5	445.6	434.3
75°	237.5	294.0	359.6	352.9	339.3
77.5°	181.0	237.5	280.5	257.9	239.8
80°	128.9	185.5	194.5	160.6	151.5
82.5°	83.7	128.9	108.6	83.7	67.9
85°	43.0	61.1	33.9	27.1	22.6
87.5°	13.6	9.0	4.5	4.5	2.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)