

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: P275667

Luminaire Tested: **14CZ2-44-S-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275667
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-L82765-W2A1-U-5500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4519.0 lumens
Efficiency: N/A
Efficacy: 123.3 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

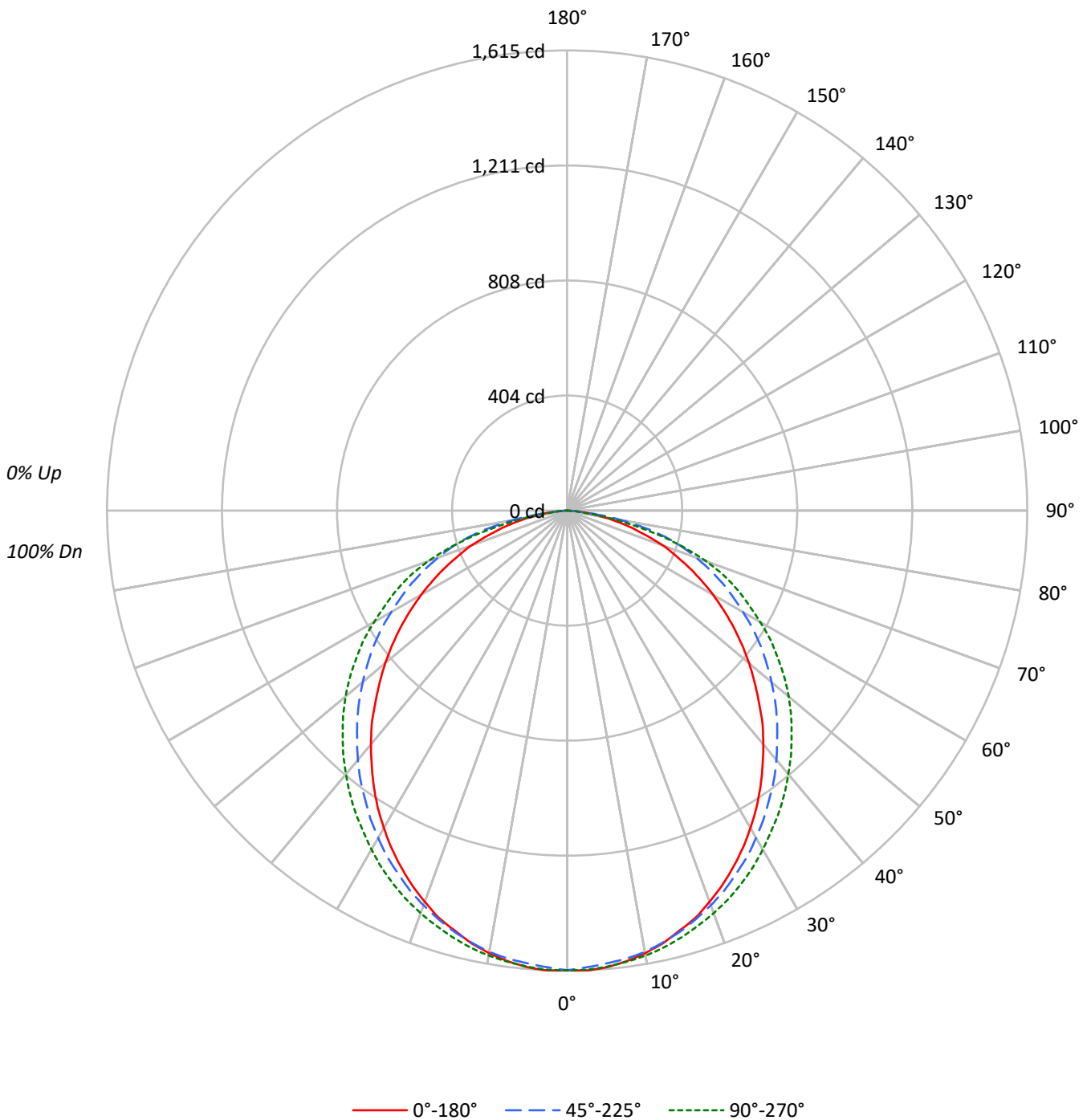
Input Watts (W): 36.642
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4341	4341	4341
5°	4346	4309	4340
10°	4310	4298	4335
15°	4251	4263	4320
20°	4183	4222	4305
25°	4098	4171	4291
30°	3996	4121	4268
35°	3886	4063	4254
40°	3762	4014	4242
45°	3624	3965	4238
50°	3489	3921	4249
55°	3343	3889	4236
60°	3183	3835	4209
65°	2996	3824	4209
70°	2821	3790	4090
75°	2446	3705	3494
80°	1979	2986	2326
85°	1315	1037	692



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.3	3.4
10°-20°	433.5	9.6
20°-30°	650.2	14.4
30°-40°	775.7	17.2
40°-50°	801.9	17.7
50°-60°	732.1	16.2
60°-70°	576.1	12.7
70°-80°	335.4	7.4
80°-90°	61.8	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°	1236.0	27.4
0°-40°	2011.7	44.5
0°-60°	3545.7	78.5
0°-90°	4519.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4519.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1613	1613	1613	1613	1613	
5°	1609	1604	1595	1609	1606	153
15°	1526	1528	1530	1550	1550	431
25°	1380	1387	1405	1438	1445	635
35°	1183	1199	1237	1284	1295	739
45°	952	984	1042	1100	1114	735
55°	712	751	829	890	903	637
65°	470	520	600	648	661	467
75°	235	291	356	350	336	250
85°	43	60	34	27	22	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1613.2	1613.2	1613.2	1613.2	1613.2
2.5°	1615.4	1611.0	1604.2	1615.4	1613.2
5°	1608.7	1604.2	1595.3	1608.7	1606.5
7.5°	1595.3	1590.8	1586.3	1599.8	1597.5
10°	1577.4	1575.1	1572.9	1588.6	1586.3
12.5°	1555.0	1555.0	1552.7	1570.6	1570.6
15°	1525.8	1528.1	1530.3	1550.5	1550.5
17.5°	1498.9	1496.7	1503.4	1525.8	1528.1
20°	1460.8	1465.3	1474.3	1501.2	1503.4
22.5°	1422.8	1427.2	1442.9	1469.8	1476.5
25°	1380.2	1386.9	1404.8	1438.4	1445.2
27.5°	1335.4	1344.3	1369.0	1404.8	1411.6
30°	1286.1	1299.5	1326.4	1366.7	1373.5
32.5°	1236.8	1250.2	1283.8	1324.2	1333.1
35°	1183.0	1198.7	1236.8	1283.8	1295.0
37.5°	1127.0	1147.2	1192.0	1239.0	1252.5
40°	1071.0	1093.4	1142.7	1192.0	1207.7
42.5°	1015.0	1037.4	1091.2	1147.2	1162.9
45°	952.2	983.6	1041.9	1100.1	1113.6
47.5°	891.7	925.4	990.3	1048.6	1066.5
50°	833.5	867.1	936.6	997.1	1015.0
52.5°	773.0	808.8	882.8	945.5	961.2
55°	712.5	750.6	829.0	889.5	902.9
57.5°	652.0	692.3	773.0	831.3	846.9
60°	591.5	634.1	712.5	770.8	782.0
62.5°	531.0	575.8	656.5	708.0	719.2
65°	470.5	519.8	600.5	647.5	661.0
67.5°	412.3	461.6	540.0	584.8	596.0
70°	358.5	403.3	481.7	515.3	519.8
72.5°	291.3	347.3	423.5	441.4	430.2
75°	235.3	291.3	356.3	349.5	336.1
77.5°	179.2	235.3	277.8	255.4	237.5
80°	127.7	183.7	192.7	159.1	150.1
82.5°	82.9	127.7	107.5	82.9	67.2
85°	42.6	60.5	33.6	26.9	22.4
87.5°	13.4	9.0	4.5	4.5	2.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)