

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: P275498

Luminaire Tested: **14CZ2-44-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275498
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-49)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-44-UNV-L82765-W2A1-U-5000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4427.0 lumens
Efficiency: N/A
Efficacy: 121.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

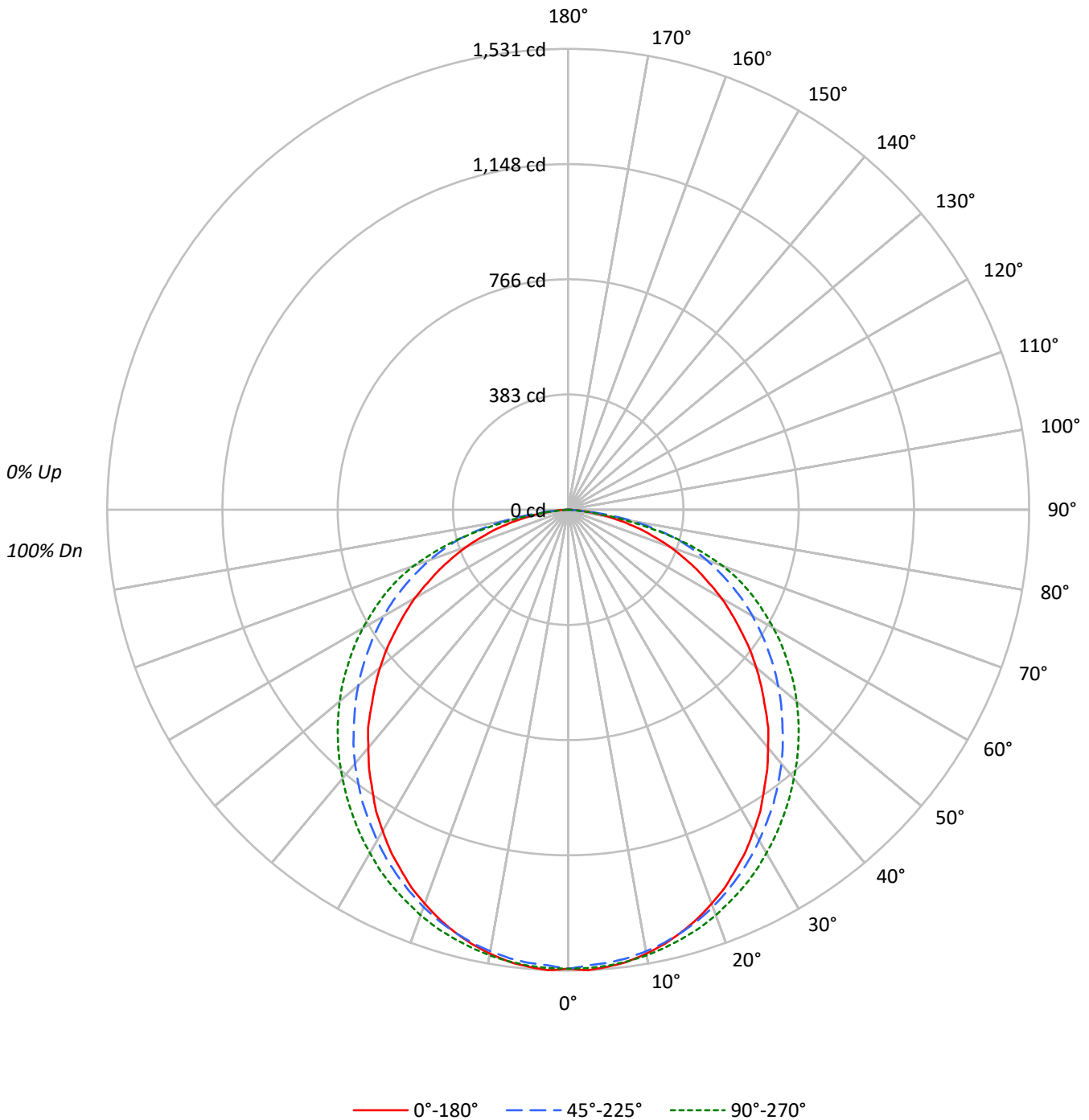
Input Watts (W): 36.456
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4104	4104	4104
5°	4117	4082	4106
10°	4092	4070	4108
15°	4048	4051	4106
20°	3989	4023	4105
25°	3913	3983	4100
30°	3828	3942	4092
35°	3726	3908	4089
40°	3627	3870	4095
45°	3516	3828	4117
50°	3414	3810	4145
55°	3284	3797	4182
60°	3166	3804	4239
65°	3004	3815	4306
70°	2819	3844	4303
75°	2556	3879	3890
80°	2095	3350	2769
85°	1553	1584	639



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.3	3.3
10°-20°	412.3	9.3
20°-30°	621.0	14.0
30°-40°	745.2	16.8
40°-50°	776.7	17.5
50°-60°	719.1	16.2
60°-70°	581.0	13.1
70°-80°	354.3	8.0
80°-90°	73.1	1.7
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°	1177.6	26.6
0°-40°	1922.8	43.4
0°-60°	3418.6	77.2
0°-90°	4427.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4427.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1525	1525	1525	1525	1525	
5°	1524	1520	1511	1522	1520	145
15°	1453	1454	1454	1474	1474	410
25°	1318	1326	1342	1375	1381	607
35°	1134	1152	1190	1233	1245	710
45°	924	952	1006	1062	1082	714
55°	700	736	809	873	891	627
65°	472	518	599	659	676	467
75°	246	300	373	379	374	258
85°	50	75	51	29	21	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1525.1	1525.1	1525.1	1525.1	1525.1
2.5°	1531.0	1526.1	1515.2	1526.1	1524.1
5°	1524.1	1520.2	1511.3	1522.2	1520.2
7.5°	1514.3	1510.3	1502.4	1515.2	1513.3
10°	1497.5	1495.5	1489.6	1504.4	1503.4
12.5°	1477.7	1476.7	1473.8	1490.6	1489.6
15°	1453.1	1454.0	1454.0	1473.8	1473.8
17.5°	1425.4	1427.4	1431.3	1453.1	1456.0
20°	1392.8	1396.8	1404.7	1429.4	1433.3
22.5°	1359.3	1362.2	1374.1	1403.7	1407.6
25°	1317.8	1325.7	1341.5	1375.1	1381.0
27.5°	1278.3	1285.2	1307.0	1341.5	1351.4
30°	1231.9	1242.8	1268.5	1306.0	1316.8
32.5°	1187.5	1199.4	1229.0	1272.4	1282.3
35°	1134.2	1152.0	1189.5	1232.9	1244.8
37.5°	1085.8	1102.6	1145.1	1192.5	1206.3
40°	1032.5	1053.3	1101.6	1152.0	1165.8
42.5°	983.2	1002.9	1055.2	1106.6	1125.3
45°	924.0	951.6	1005.9	1062.2	1081.9
47.5°	869.7	897.3	959.5	1019.7	1037.5
50°	815.4	845.0	910.1	972.3	990.1
52.5°	759.1	790.7	860.8	923.0	943.7
55°	699.9	736.4	809.4	872.6	891.4
57.5°	643.6	681.1	759.1	823.3	842.0
60°	588.3	626.8	706.8	768.0	787.7
62.5°	527.1	572.5	655.5	715.7	730.5
65°	471.8	518.2	599.2	659.4	676.2
67.5°	413.6	464.0	544.9	600.2	616.0
70°	358.3	410.6	488.6	540.0	546.9
72.5°	299.1	352.4	431.4	464.0	464.0
75°	245.8	300.1	373.1	379.1	374.1
77.5°	187.6	247.8	295.2	283.3	271.5
80°	135.2	194.5	216.2	194.5	178.7
82.5°	90.8	141.2	130.3	103.6	91.8
85°	50.3	75.0	51.3	28.6	20.7
87.5°	18.8	16.8	4.9	4.9	4.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)