

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: P275721

Luminaire Tested: **14CZ2-44-S-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275721
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-L92765-W2A1-U-5500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4078.0 lumens
Efficiency: N/A
Efficacy: 111.3 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

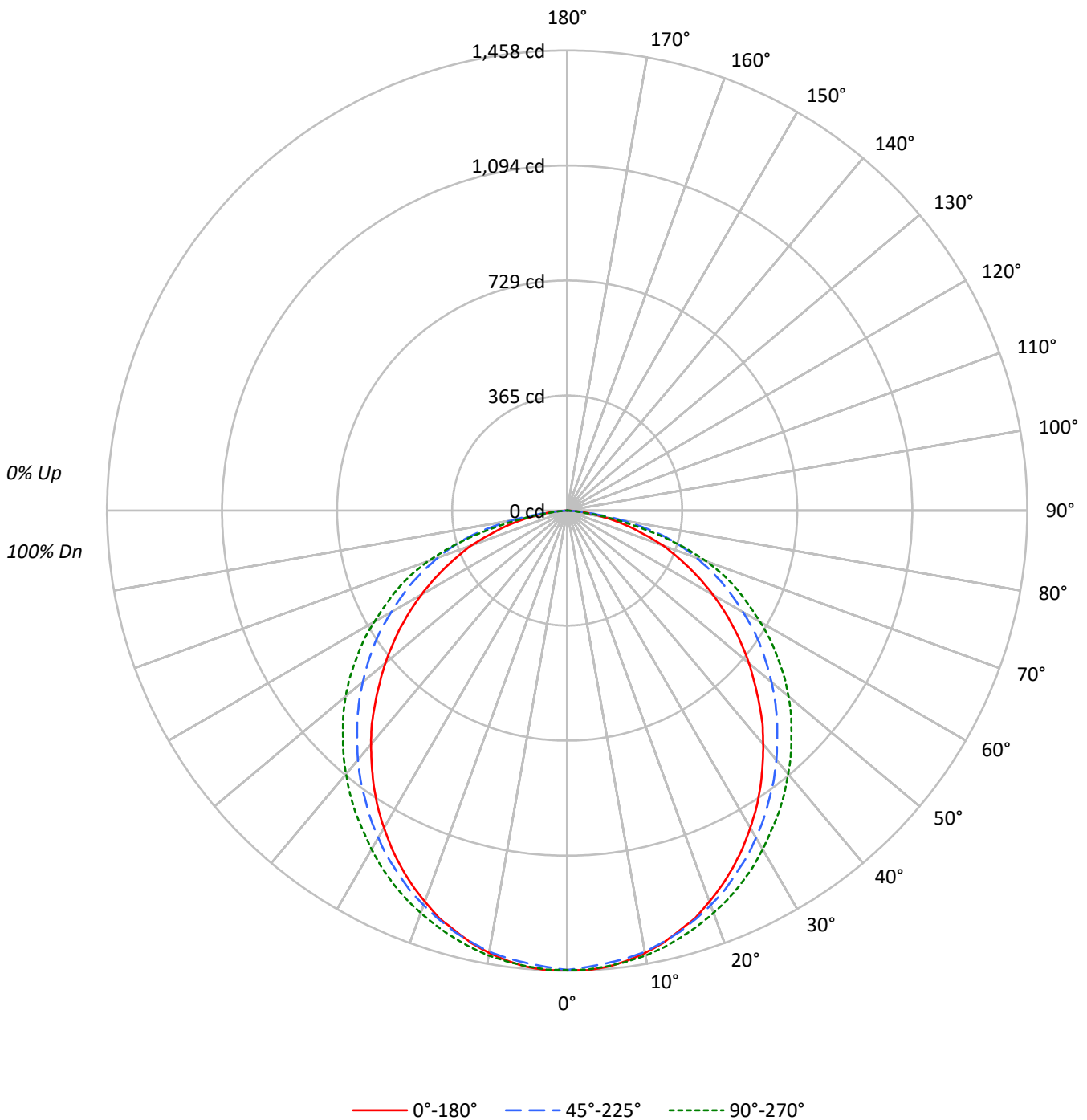
Input Watts (W): 36.642
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3918	3918	3918
5°	3921	3889	3916
10°	3889	3878	3912
15°	3836	3847	3898
20°	3775	3810	3885
25°	3698	3764	3872
30°	3606	3719	3851
35°	3507	3666	3839
40°	3395	3622	3828
45°	3270	3578	3824
50°	3149	3538	3834
55°	3017	3510	3823
60°	2873	3461	3798
65°	2704	3450	3798
70°	2545	3420	3691
75°	2207	3343	3153
80°	1785	2695	2100
85°	1186	936	624



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.5	3.4
10°-20°	391.2	9.6
20°-30°	586.8	14.4
30°-40°	700.0	17.2
40°-50°	723.6	17.7
50°-60°	660.7	16.2
60°-70°	519.9	12.7
70°-80°	302.6	7.4
80°-90°	55.8	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°	1115.4	27.4
0°-40°	1815.4	44.5
0°-60°	3199.7	78.5
0°-90°	4078.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4078.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1456	1456	1456	1456	1456	
5°	1452	1448	1440	1452	1450	138
15°	1377	1379	1381	1399	1399	389
25°	1246	1252	1268	1298	1304	573
35°	1068	1082	1116	1159	1169	667
45°	859	888	940	993	1005	664
55°	643	677	748	803	815	575
65°	425	469	542	584	596	422
75°	212	263	322	315	303	226
85°	38	55	30	24	20	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1455.8	1455.8	1455.8	1455.8	1455.8
2.5°	1457.8	1453.8	1447.7	1457.8	1455.8
5°	1451.7	1447.7	1439.6	1451.7	1449.7
7.5°	1439.6	1435.6	1431.5	1443.6	1441.6
10°	1423.4	1421.4	1419.4	1433.5	1431.5
12.5°	1403.2	1403.2	1401.2	1417.4	1417.4
15°	1376.9	1378.9	1381.0	1399.2	1399.2
17.5°	1352.7	1350.6	1356.7	1376.9	1378.9
20°	1318.3	1322.3	1330.4	1354.7	1356.7
22.5°	1283.9	1288.0	1302.1	1326.4	1332.4
25°	1245.5	1251.6	1267.7	1298.1	1304.1
27.5°	1205.1	1213.1	1235.4	1267.7	1273.8
30°	1160.6	1172.7	1197.0	1233.4	1239.4
32.5°	1116.1	1128.2	1158.6	1195.0	1203.0
35°	1067.6	1081.7	1116.1	1158.6	1168.7
37.5°	1017.0	1035.2	1075.7	1118.1	1130.3
40°	966.5	986.7	1031.2	1075.7	1089.8
42.5°	915.9	936.1	984.7	1035.2	1049.4
45°	859.3	887.6	940.2	992.8	1004.9
47.5°	804.7	835.1	893.7	946.3	962.4
50°	752.2	782.5	845.2	899.8	915.9
52.5°	697.6	729.9	796.6	853.2	867.4
55°	643.0	677.3	748.1	802.7	814.8
57.5°	588.4	624.8	697.6	750.1	764.3
60°	533.8	572.2	643.0	695.5	705.6
62.5°	479.2	519.6	592.4	638.9	649.0
65°	424.6	469.1	541.9	584.3	596.5
67.5°	372.0	416.5	487.3	527.7	537.8
70°	323.5	363.9	434.7	465.0	469.1
72.5°	262.8	313.4	382.1	398.3	388.2
75°	212.3	262.8	321.5	315.4	303.3
77.5°	161.8	212.3	250.7	230.5	214.3
80°	115.2	165.8	173.9	143.6	135.5
82.5°	74.8	115.2	97.1	74.8	60.7
85°	38.4	54.6	30.3	24.3	20.2
87.5°	12.1	8.1	4.0	4.0	2.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)