

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: P275584

Luminaire Tested: **14CZ2-44-S-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275584
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-4500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4606.0 lumens
Efficiency: N/A
Efficacy: 123.2 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

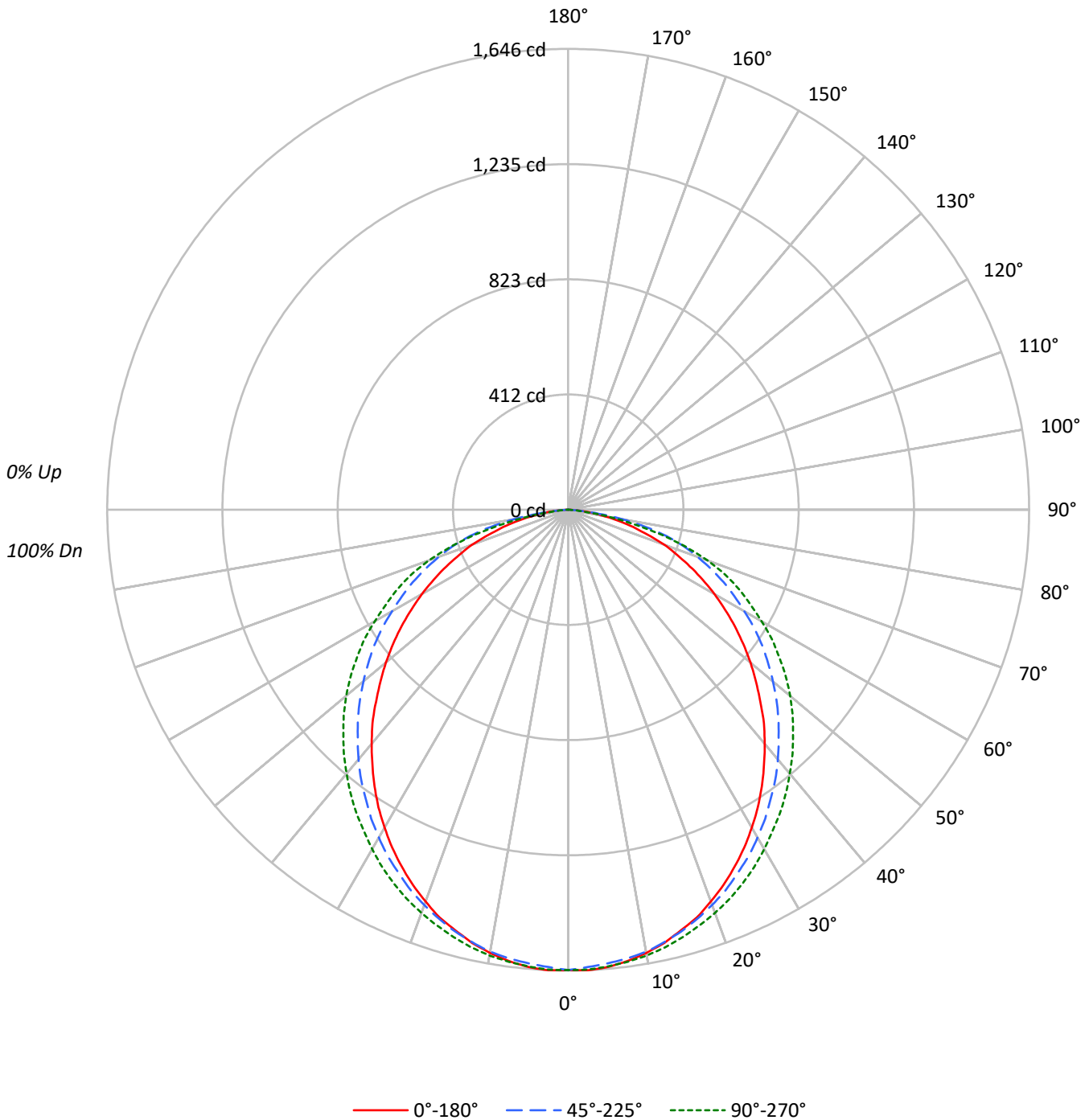
Input Watts (W): 37.386
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4425	4425	4425
5°	4429	4392	4423
10°	4393	4381	4418
15°	4333	4345	4403
20°	4264	4303	4388
25°	4177	4252	4374
30°	4073	4201	4350
35°	3961	4141	4336
40°	3835	4091	4324
45°	3694	4041	4319
50°	3556	3996	4331
55°	3407	3964	4318
60°	3245	3908	4289
65°	3054	3897	4290
70°	2875	3863	4168
75°	2493	3775	3562
80°	2018	3044	2371
85°	1340	1059	704



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.3	3.4
10°-20°	441.8	9.6
20°-30°	662.7	14.4
30°-40°	790.6	17.2
40°-50°	817.3	17.7
50°-60°	746.2	16.2
60°-70°	587.2	12.7
70°-80°	341.8	7.4
80°-90°	63.0	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°	1259.8	27.4
0°-40°	2050.4	44.5
0°-60°	3614.0	78.5
0°-90°	4606.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4606.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1644	1644	1644	1644	1644	
5°	1640	1635	1626	1640	1637	155
15°	1555	1558	1560	1580	1580	439
25°	1407	1414	1432	1466	1473	648
35°	1206	1222	1261	1309	1320	754
45°	971	1002	1062	1121	1135	749
55°	726	765	845	907	920	649
65°	480	530	612	660	674	476
75°	240	297	363	356	343	255
85°	43	62	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°	1644.3	1644.3	1644.3	1644.3	1644.3
2.5°	1646.5	1642.0	1635.1	1646.5	1644.3
5°	1639.7	1635.1	1626.0	1639.7	1637.4
7.5°	1626.0	1621.4	1616.9	1630.6	1628.3
10°	1607.7	1605.4	1603.2	1619.1	1616.9
12.5°	1584.9	1584.9	1582.6	1600.9	1600.9
15°	1555.2	1557.5	1559.8	1580.3	1580.3
17.5°	1527.8	1525.5	1532.4	1555.2	1557.5
20°	1489.0	1493.5	1502.7	1530.1	1532.4
22.5°	1450.2	1454.7	1470.7	1498.1	1505.0
25°	1406.8	1413.6	1431.9	1466.1	1473.0
27.5°	1361.1	1370.2	1395.3	1431.9	1438.7
30°	1310.8	1324.5	1352.0	1393.1	1399.9
32.5°	1260.6	1274.3	1308.6	1349.7	1358.8
35°	1205.8	1221.8	1260.6	1308.6	1320.0
37.5°	1148.7	1169.3	1214.9	1262.9	1276.6
40°	1091.6	1114.4	1164.7	1214.9	1230.9
42.5°	1034.5	1057.4	1112.2	1169.3	1185.2
45°	970.6	1002.5	1061.9	1121.3	1135.0
47.5°	908.9	943.2	1009.4	1068.8	1087.0
50°	849.5	883.8	954.6	1016.2	1034.5
52.5°	787.9	824.4	899.8	963.7	979.7
55°	726.2	765.0	845.0	906.6	920.3
57.5°	664.6	705.7	787.9	847.3	863.2
60°	602.9	646.3	726.2	785.6	797.0
62.5°	541.2	586.9	669.1	721.6	733.1
65°	479.6	529.8	612.0	660.0	673.7
67.5°	420.2	470.4	550.4	596.0	607.5
70°	365.4	411.1	491.0	525.3	529.8
72.5°	296.9	354.0	431.6	449.9	438.5
75°	239.8	296.9	363.1	356.3	342.6
77.5°	182.7	239.8	283.2	260.3	242.1
80°	130.2	187.3	196.4	162.1	153.0
82.5°	84.5	130.2	109.6	84.5	68.5
85°	43.4	61.7	34.3	27.4	22.8
87.5°	13.7	9.1	4.6	4.6	2.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)