

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: P275416

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275416
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-L83050-W2A1-U-4500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4558.0 lumens
Efficiency: N/A
Efficacy: 121.9 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

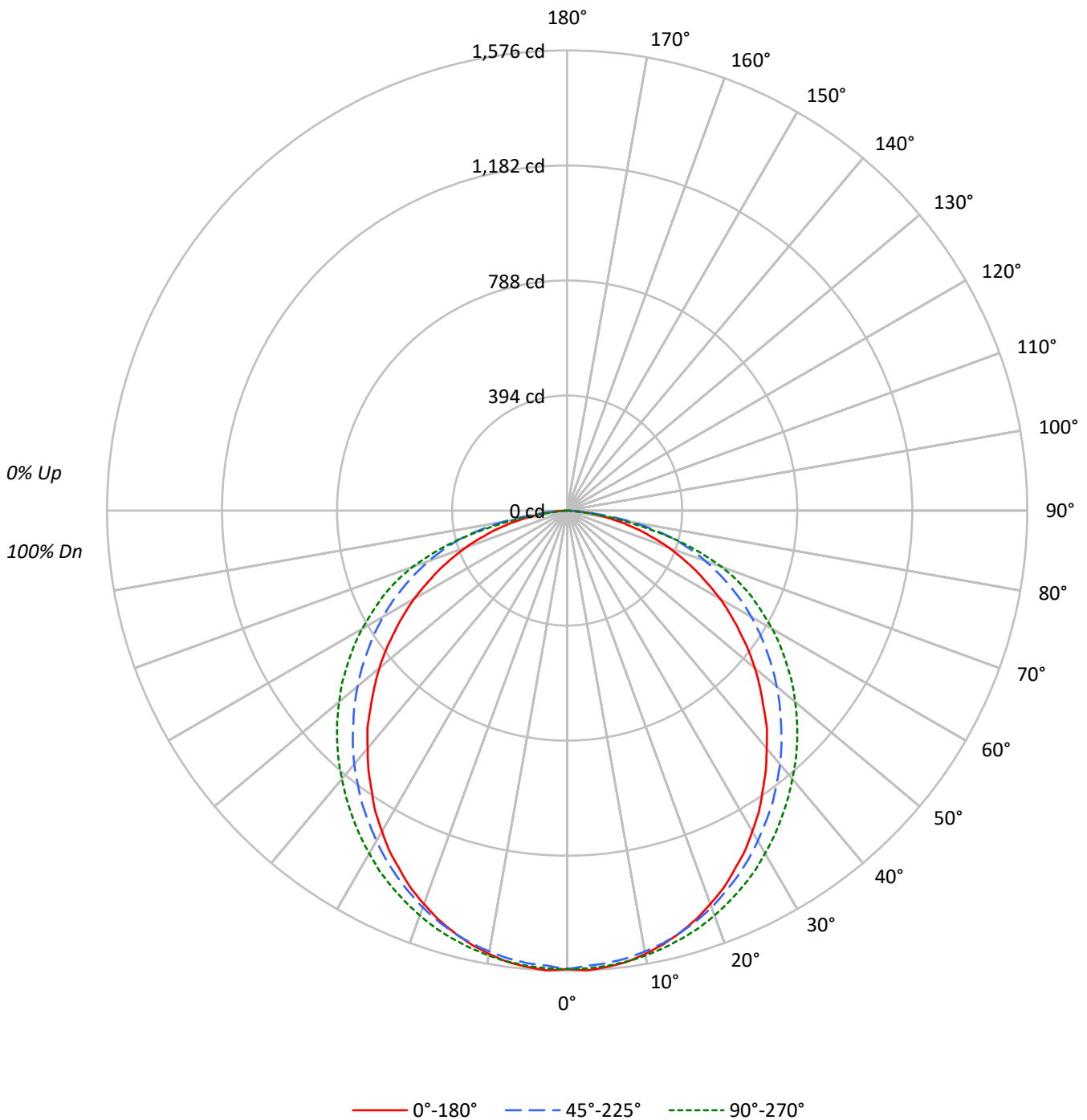
Input Watts (W): 37.386
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P275416

CATALOG NUMBER: 14CZ2-44-UNV-L83050-W2A1-U-4500K

Luminous Intensity Polar Plot





TEST NUMBER: P275416

CATALOG NUMBER: 14CZ2-44-UNV-L83050-W2A1-U-4500K

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	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					100			
1	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83					83			
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69					69			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37					37			
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32					32			
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29					29			
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4225	4225	4225
5°	4239	4203	4228
10°	4213	4191	4230
15°	4168	4171	4227
20°	4107	4142	4226
25°	4029	4101	4222
30°	3941	4058	4213
35°	3836	4023	4210
40°	3734	3984	4216
45°	3620	3941	4239
50°	3514	3923	4268
55°	3381	3910	4306
60°	3260	3916	4365
65°	3093	3928	4433
70°	2902	3958	4430
75°	2632	3995	4005
80°	2157	3450	2851
85°	1599	1630	658



TEST NUMBER: P275416

CATALOG NUMBER: 14CZ2-44-UNV-L83050-W2A1-U-4500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.6	3.3
10°-20°	424.5	9.3
20°-30°	639.4	14.0
30°-40°	767.3	16.8
40°-50°	799.7	17.5
50°-60°	740.4	16.2
60°-70°	598.2	13.1
70°-80°	364.7	8.0
80°-90°	75.3	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°	1212.4	26.6
0°-40°	1979.7	43.4
0°-60°	3519.8	77.2
0°-90°	4558.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4558.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1570	1570	1570	1570	1570	
5°	1569	1565	1556	1567	1565	149
15°	1496	1497	1497	1517	1517	422
25°	1357	1365	1381	1416	1422	625
35°	1168	1186	1225	1269	1282	732
45°	951	980	1036	1094	1114	735
55°	721	758	833	898	918	646
65°	486	534	617	679	696	480
75°	253	309	384	390	385	266
85°	52	77	53	30	21	64
90°	0	0	0	0	0	



TEST NUMBER: P275416

CATALOG NUMBER: 14CZ2-44-UNV-L83050-W2A1-U-4500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1570.2	1570.2	1570.2	1570.2	1570.2
2.5°	1576.3	1571.3	1560.1	1571.3	1569.2
5°	1569.2	1565.2	1556.0	1567.2	1565.2
7.5°	1559.1	1555.0	1546.9	1560.1	1558.0
10°	1541.8	1539.8	1533.7	1548.9	1547.9
12.5°	1521.5	1520.4	1517.4	1534.7	1533.7
15°	1496.1	1497.1	1497.1	1517.4	1517.4
17.5°	1467.6	1469.6	1473.7	1496.1	1499.1
20°	1434.1	1438.1	1446.3	1471.7	1475.7
22.5°	1399.5	1402.5	1414.7	1445.2	1449.3
25°	1356.8	1364.9	1381.2	1415.8	1421.9
27.5°	1316.2	1323.3	1345.6	1381.2	1391.4
30°	1268.4	1279.6	1306.0	1344.6	1355.8
32.5°	1222.7	1234.9	1265.3	1310.1	1320.2
35°	1167.8	1186.1	1224.7	1269.4	1281.6
37.5°	1118.0	1135.3	1179.0	1227.7	1242.0
40°	1063.1	1084.4	1134.2	1186.1	1200.3
42.5°	1012.3	1032.6	1086.5	1139.3	1158.6
45°	951.3	979.8	1035.7	1093.6	1113.9
47.5°	895.4	923.9	987.9	1049.9	1068.2
50°	839.5	870.0	937.1	1001.1	1019.4
52.5°	781.6	814.1	886.2	950.3	971.6
55°	720.6	758.2	833.4	898.4	917.8
57.5°	662.7	701.3	781.6	847.6	866.9
60°	605.7	645.4	727.7	790.7	811.0
62.5°	542.7	589.5	674.8	736.8	752.1
65°	485.8	533.6	616.9	678.9	696.2
67.5°	425.8	477.7	561.0	617.9	634.2
70°	368.9	422.8	503.1	555.9	563.1
72.5°	308.0	362.8	444.1	477.7	477.7
75°	253.1	309.0	384.2	390.3	385.2
77.5°	193.1	255.1	303.9	291.7	279.5
80°	139.2	200.2	222.6	200.2	184.0
82.5°	93.5	145.3	134.2	106.7	94.5
85°	51.8	77.2	52.8	29.5	21.3
87.5°	19.3	17.3	5.1	5.1	5.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)