

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: P275666

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275666
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-5000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4474.0 lumens
Efficiency: N/A
Efficacy: 122.7 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

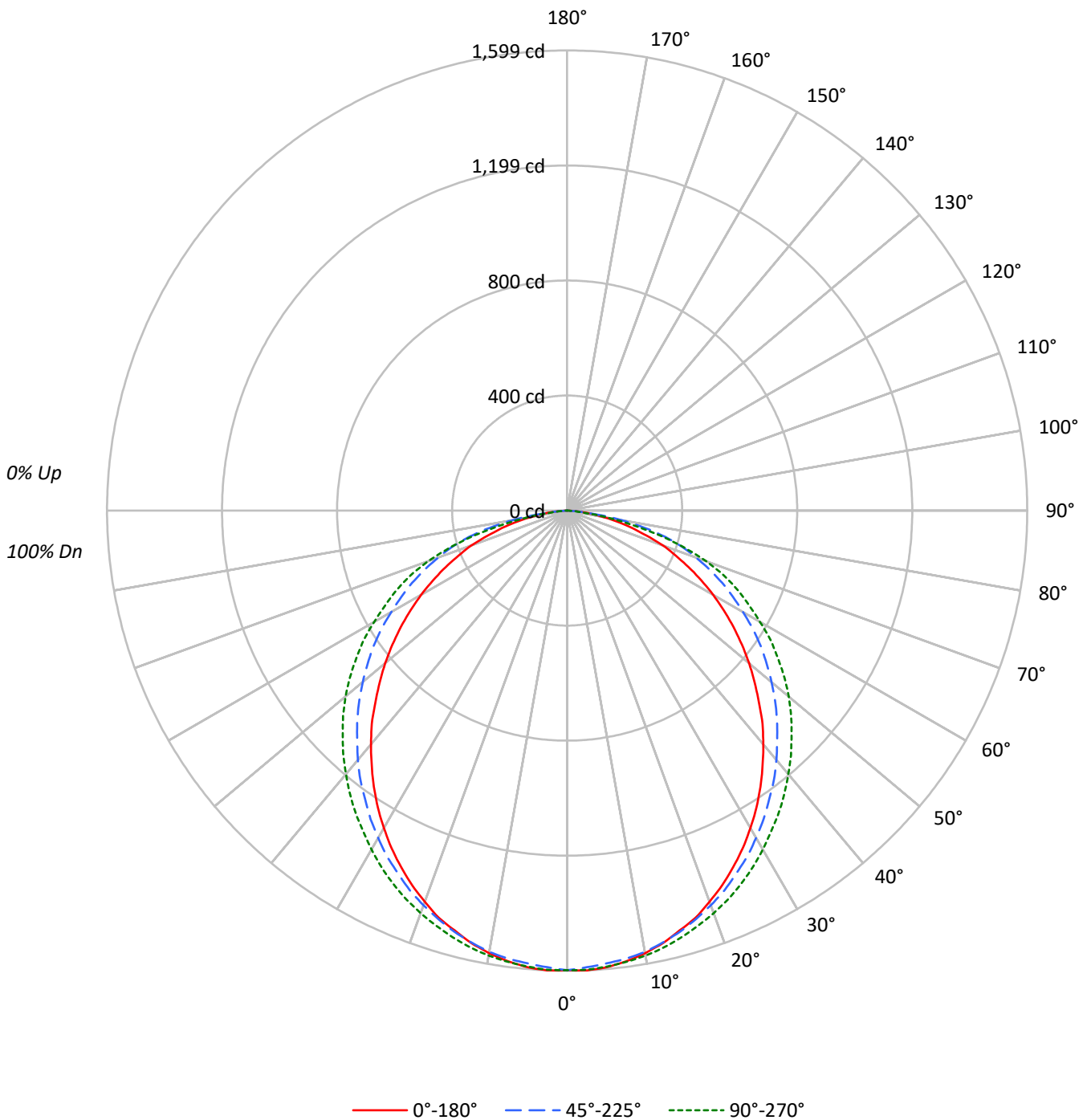
Input Watts (W): 36.456
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P275666

CATALOG NUMBER: 14CZ2-44-S-UNV-L82765-W2A1-U-5000K

Luminous Intensity Polar Plot





TEST NUMBER: P275666

CATALOG NUMBER: 14CZ2-44-S-UNV-L82765-W2A1-U-5000K

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°	4298	4298	4298
5°	4302	4266	4296
10°	4267	4255	4291
15°	4208	4221	4276
20°	4142	4180	4262
25°	4057	4130	4248
30°	3956	4080	4225
35°	3847	4023	4212
40°	3725	3974	4200
45°	3588	3925	4196
50°	3455	3882	4207
55°	3309	3851	4194
60°	3152	3796	4167
65°	2966	3785	4167
70°	2792	3752	4049
75°	2421	3667	3459
80°	1959	2957	2303
85°	1300	1028	685



TEST NUMBER: P275666

CATALOG NUMBER: 14CZ2-44-S-UNV-L82765-W2A1-U-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.8	3.4
10°-20°	429.2	9.6
20°-30°	643.8	14.4
30°-40°	767.9	17.2
40°-50°	793.9	17.7
50°-60°	724.8	16.2
60°-70°	570.4	12.7
70°-80°	332.0	7.4
80°-90°	61.2	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°	1223.7	27.4
0°-40°	1991.7	44.5
0°-60°	3510.4	78.5
0°-90°	4474.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4474.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1597	1597	1597	1597	1597	
5°	1593	1588	1579	1593	1590	151
15°	1511	1513	1515	1535	1535	426
25°	1366	1373	1391	1424	1431	629
35°	1171	1187	1224	1271	1282	732
45°	943	974	1032	1089	1102	728
55°	705	743	821	881	894	631
65°	466	515	594	641	654	463
75°	233	288	353	346	333	248
85°	42	60	33	27	22	55
90°	0	0	0	0	0	



TEST NUMBER: P275666

CATALOG NUMBER: 14CZ2-44-S-UNV-L82765-W2A1-U-5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1597.1	1597.1	1597.1	1597.1	1597.1
2.5°	1599.4	1594.9	1588.3	1599.4	1597.1
5°	1592.7	1588.3	1579.4	1592.7	1590.5
7.5°	1579.4	1575.0	1570.5	1583.8	1581.6
10°	1561.7	1559.4	1557.2	1572.7	1570.5
12.5°	1539.5	1539.5	1537.3	1555.0	1555.0
15°	1510.6	1512.9	1515.1	1535.0	1535.0
17.5°	1484.0	1481.8	1488.4	1510.6	1512.9
20°	1446.3	1450.7	1459.6	1486.2	1488.4
22.5°	1408.6	1413.0	1428.6	1455.2	1461.8
25°	1366.4	1373.1	1390.8	1424.1	1430.8
27.5°	1322.1	1331.0	1355.4	1390.8	1397.5
30°	1273.3	1286.6	1313.2	1353.1	1359.8
32.5°	1224.5	1237.8	1271.1	1311.0	1319.9
35°	1171.2	1186.8	1224.5	1271.1	1282.2
37.5°	1115.8	1135.7	1180.1	1226.7	1240.0
40°	1060.3	1082.5	1131.3	1180.1	1195.6
42.5°	1004.9	1027.1	1080.3	1135.7	1151.3
45°	942.8	973.8	1031.5	1089.2	1102.5
47.5°	882.9	916.1	980.5	1038.1	1055.9
50°	825.2	858.5	927.2	987.1	1004.9
52.5°	765.3	800.8	874.0	936.1	951.6
55°	705.4	743.1	820.8	880.6	894.0
57.5°	645.5	685.4	765.3	823.0	838.5
60°	585.6	627.8	705.4	763.1	774.2
62.5°	525.7	570.1	649.9	701.0	712.1
65°	465.8	514.6	594.5	641.1	654.4
67.5°	408.2	457.0	534.6	579.0	590.1
70°	354.9	399.3	476.9	510.2	514.6
72.5°	288.4	343.8	419.3	437.0	425.9
75°	232.9	288.4	352.7	346.0	332.7
77.5°	177.5	232.9	275.1	252.9	235.1
80°	126.4	181.9	190.8	157.5	148.6
82.5°	82.1	126.4	106.5	82.1	66.5
85°	42.1	59.9	33.3	26.6	22.2
87.5°	13.3	8.9	4.4	4.4	2.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)