

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: P259403

Luminaire Tested: **22CZ-LD5-44-S-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259403
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25712)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-44-S-UNV-L83050-W2A1-U-4000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4732.0 lumens
Efficiency: N/A
Efficacy: 133.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

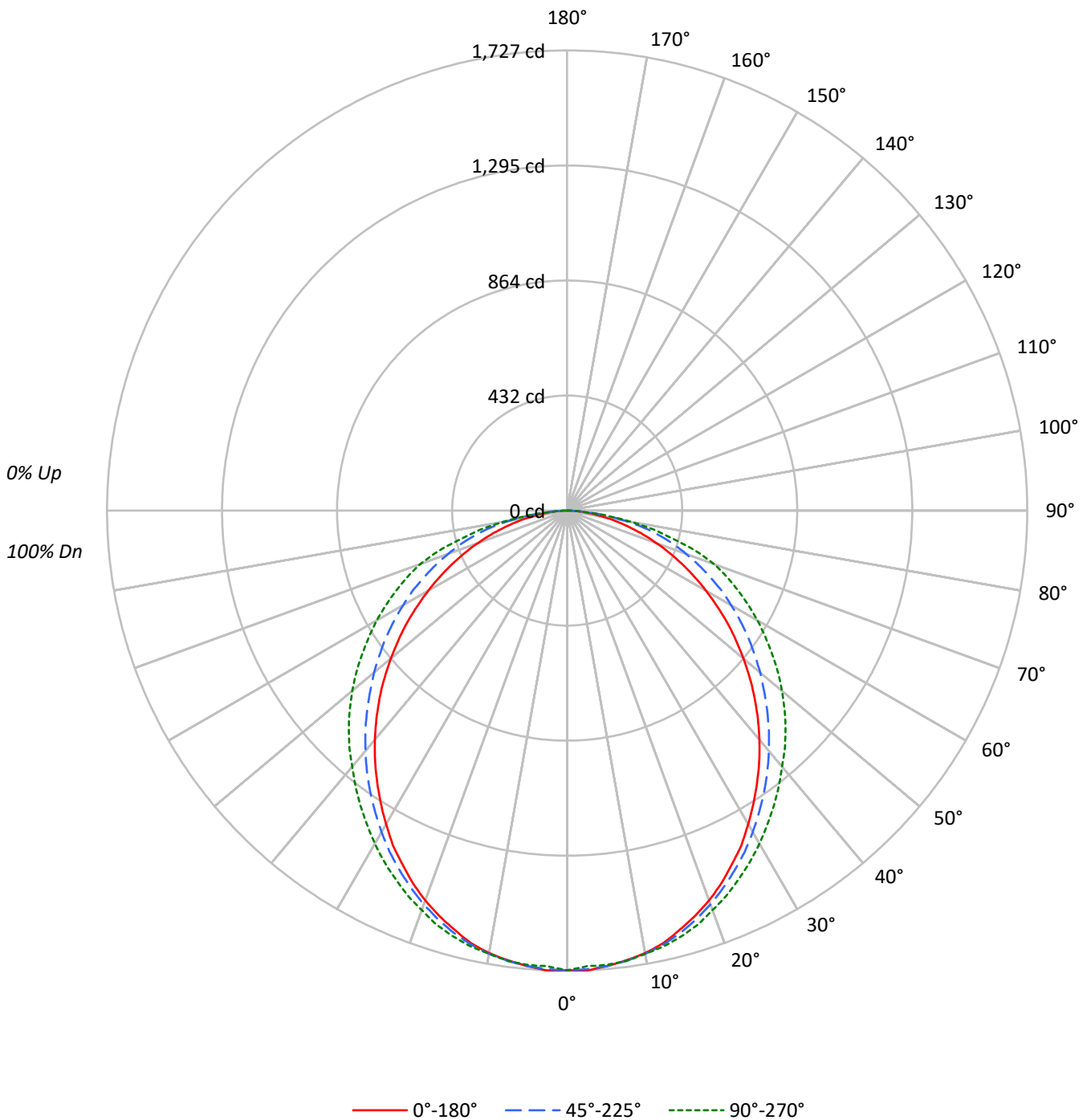
Input Watts (W): 35.433
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	91	88	90	87	85	83
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	64	60	58
4	82	70	61	54	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	56	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	36	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	34	29	39	33	29	27
10	53	40	32	26	52	39	32	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4642	4642	4642
5°	4635	4635	4623
10°	4608	4614	4614
15°	4540	4572	4610
20°	4458	4504	4569
25°	4346	4420	4528
30°	4223	4329	4485
35°	4084	4233	4442
40°	3944	4136	4407
45°	3788	4039	4411
50°	3616	3958	4405
55°	3444	3892	4404
60°	3242	3829	4440
65°	3039	3777	4501
70°	2807	3737	4614
75°	2529	3710	4277
80°	2219	3451	3733
85°	1825	2597	2316



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.9	3.4
10°-20°	462.8	9.8
20°-30°	687.3	14.5
30°-40°	809.1	17.1
40°-50°	824.8	17.4
50°-60°	743.9	15.7
60°-70°	586.0	12.4
70°-80°	361.4	7.6
80°-90°	93.8	2.0
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°	1313.0	27.7
0°-40°	2122.1	44.8
0°-60°	3690.8	78.0
0°-90°	4732.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4732.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1725	1725	1725	1725	1725	
5°	1716	1718	1716	1714	1712	163
15°	1630	1636	1641	1650	1655	459
25°	1464	1473	1489	1514	1525	674
35°	1243	1257	1289	1330	1352	778
45°	996	1011	1061	1125	1159	767
55°	734	759	830	905	939	655
65°	477	511	593	668	707	473
75°	243	284	357	398	411	259
85°	59	75	84	80	75	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1725.1	1725.1	1725.1	1725.1	1725.1
2.5°	1727.4	1727.4	1722.8	1718.3	1711.5
5°	1716.0	1718.3	1716.0	1713.7	1711.5
7.5°	1702.4	1704.6	1704.6	1704.6	1704.6
10°	1686.5	1688.7	1688.7	1688.7	1688.7
12.5°	1663.7	1666.0	1668.3	1670.5	1675.1
15°	1629.6	1636.5	1641.0	1650.1	1654.6
17.5°	1595.5	1602.4	1609.2	1620.5	1629.6
20°	1556.9	1561.4	1572.8	1586.4	1595.5
22.5°	1513.7	1520.5	1531.9	1550.1	1563.7
25°	1463.7	1472.8	1488.7	1513.7	1525.1
27.5°	1416.0	1422.8	1443.3	1470.5	1486.4
30°	1359.2	1368.3	1393.3	1427.4	1443.3
32.5°	1302.3	1313.7	1341.0	1379.6	1397.8
35°	1243.2	1256.9	1288.7	1329.6	1352.3
37.5°	1184.2	1197.8	1234.2	1279.6	1304.6
40°	1122.8	1136.4	1177.3	1227.3	1254.6
42.5°	1059.1	1075.1	1120.5	1177.3	1209.2
45°	995.5	1011.4	1061.4	1125.1	1159.2
47.5°	929.6	947.8	1002.3	1072.8	1106.9
50°	863.7	884.1	945.5	1018.2	1052.3
52.5°	797.8	820.5	886.4	961.4	997.8
55°	734.1	759.1	829.6	904.6	938.7
57.5°	665.9	695.5	770.5	843.2	881.9
60°	602.3	634.1	711.4	784.1	825.0
62.5°	538.7	572.8	654.6	727.3	766.0
65°	477.3	511.4	593.2	668.2	706.9
67.5°	415.9	454.6	534.1	609.1	647.8
70°	356.8	397.7	475.0	547.8	586.4
72.5°	300.0	340.9	418.2	486.4	509.1
75°	243.2	284.1	356.8	397.7	411.4
77.5°	190.9	229.6	293.2	318.2	336.4
80°	143.2	177.3	222.7	238.6	240.9
82.5°	97.7	127.3	154.6	156.8	154.6
85°	59.1	75.0	84.1	79.5	75.0
87.5°	27.3	29.5	27.3	18.2	11.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)