

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: P#

Luminaire Tested: **22CZ-LD5-44SE-S-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
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-LD5-44SE-S-UNV-L850-CD1-U
Description: CRUZE 2x2 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

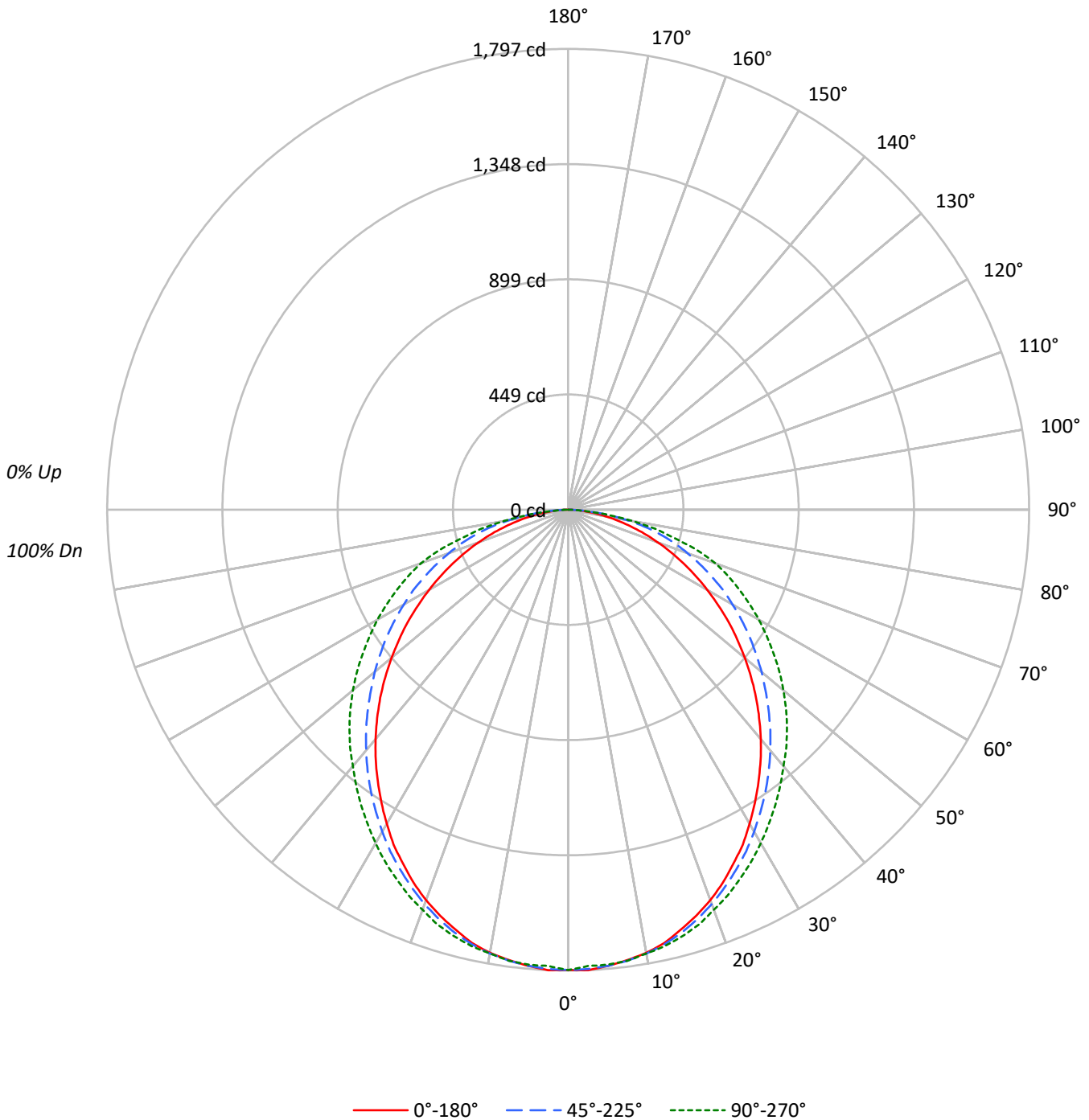
Lumens per Lamp: N/A
Luminaire Lumens: 4923.7 lumens
Efficiency: N/A
Efficacy: 123.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.1')
CIE Type: Direct

Input Watts (W): 40
Input Voltage (V): NR
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	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°	4830	4830	4830
5°	4802	4793	4789
10°	4753	4742	4759
15°	4661	4668	4733
20°	4556	4569	4669
25°	4419	4452	4604
30°	4271	4328	4535
35°	4106	4197	4466
40°	3939	4062	4401
45°	3754	3925	4371
50°	3551	3799	4326
55°	3345	3678	4277
60°	3104	3549	4252
65°	2856	3412	4230
70°	2569	3256	4220
75°	2217	3054	3750
80°	1799	2564	3027
85°	1208	1494	1532



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.5	3.4
10°-20°	481.5	9.8
20°-30°	715.2	14.5
30°-40°	841.8	17.1
40°-50°	858.2	17.4
50°-60°	774.0	15.7
60°-70°	609.7	12.4
70°-80°	376.1	7.6
80°-90°	97.6	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°	1366.2	27.7
0°-40°	2208.0	44.8
0°-60°	3840.3	78.0
0°-90°	4923.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4923.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1795	1795	1795	1795	1795	
5°	1786	1788	1786	1783	1781	169
15°	1696	1703	1708	1717	1722	478
25°	1523	1532	1549	1575	1587	702
35°	1294	1308	1341	1384	1407	809
45°	1036	1052	1104	1171	1206	798
55°	764	790	863	941	977	682
65°	497	532	617	695	736	492
75°	253	296	371	414	428	270
85°	62	78	88	83	78	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1795.0	1795.0	1795.0	1795.0	1795.0
2.5°	1797.3	1797.3	1792.6	1787.9	1780.8
5°	1785.5	1787.9	1785.5	1783.1	1780.8
7.5°	1771.3	1773.7	1773.7	1773.7	1773.7
10°	1754.8	1757.1	1757.1	1757.1	1757.1
12.5°	1731.1	1733.5	1735.8	1738.2	1742.9
15°	1695.6	1702.7	1707.5	1716.9	1721.7
17.5°	1660.2	1667.3	1674.4	1686.2	1695.6
20°	1620.0	1624.7	1636.5	1650.7	1660.2
22.5°	1575.0	1582.1	1594.0	1612.9	1627.1
25°	1523.0	1532.5	1549.0	1575.0	1586.9
27.5°	1473.3	1480.4	1501.7	1530.1	1546.7
30°	1414.2	1423.7	1449.7	1485.2	1501.7
32.5°	1355.1	1366.9	1395.3	1435.5	1454.4
35°	1293.6	1307.8	1340.9	1383.5	1407.1
37.5°	1232.1	1246.3	1284.1	1331.4	1357.5
40°	1168.3	1182.5	1225.0	1277.1	1305.4
42.5°	1102.0	1118.6	1165.9	1225.0	1258.1
45°	1035.8	1052.4	1104.4	1170.6	1206.1
47.5°	967.2	986.2	1042.9	1116.2	1151.7
50°	898.7	920.0	983.8	1059.5	1095.0
52.5°	830.1	853.7	922.3	1000.4	1038.2
55°	763.9	789.9	863.2	941.2	976.7
57.5°	692.9	723.7	801.7	877.4	917.6
60°	626.7	659.8	740.2	815.9	858.5
62.5°	560.5	596.0	681.1	756.8	797.0
65°	496.6	532.1	617.2	695.3	735.5
67.5°	432.8	473.0	555.8	633.8	674.0
70°	371.3	413.9	494.3	569.9	610.1
72.5°	312.2	354.7	435.1	506.1	529.7
75°	253.0	295.6	371.3	413.9	428.0
77.5°	198.7	238.9	305.1	331.1	350.0
80°	149.0	184.5	231.8	248.3	250.7
82.5°	101.7	132.4	160.8	163.2	160.8
85°	61.5	78.0	87.5	82.8	78.0
87.5°	28.4	30.7	28.4	18.9	11.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)