

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-LD5-44-UNV-L840-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 (P25706)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-44-UNV-L840-CD1-U
Description: CRUZE 2x2 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

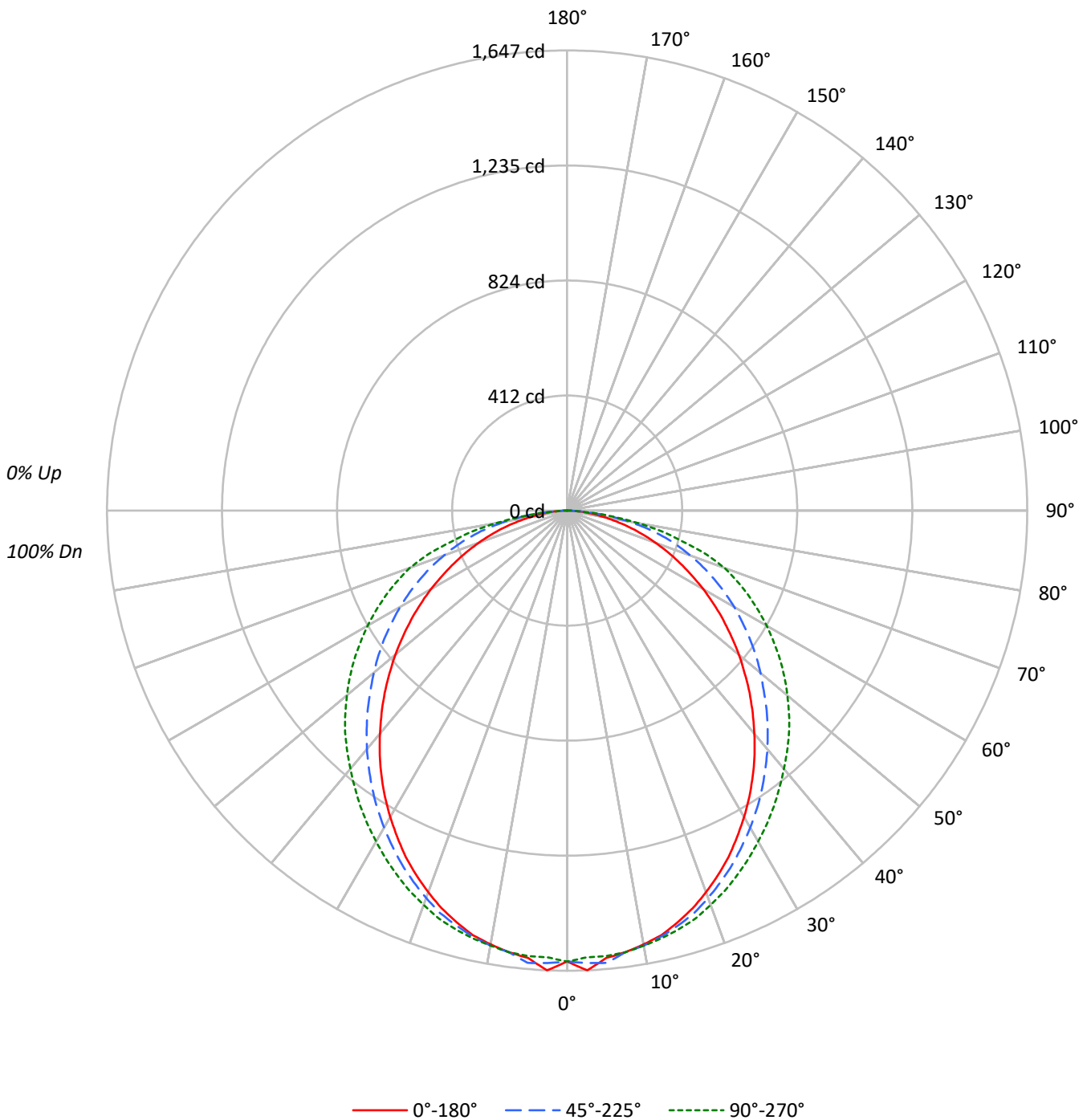
Lumens per Lamp: N/A
Luminaire Lumens: 4521.7 lumens
Efficiency: N/A
Efficacy: 108.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.26 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.1')
CIE Type: Direct

Input Watts (W): 41.8
Input Voltage (V): NR
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	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	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	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	90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43					43			
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37					37			
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33					33			
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29					29			
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26					26			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4343	4343	4343
5°	4323	4362	4305
10°	4270	4267	4282
15°	4195	4202	4262
20°	4088	4119	4224
25°	3968	4020	4179
30°	3825	3912	4131
35°	3678	3806	4097
40°	3514	3697	4070
45°	3347	3587	4072
50°	3171	3489	4066
55°	2985	3401	4073
60°	2788	3310	4084
65°	2567	3210	4110
70°	2327	3085	4137
75°	2023	2912	3757
80°	1619	2432	3080
85°	1124	1427	1599



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.1	3.4
10°-20°	433.6	9.6
20°-30°	645.0	14.3
30°-40°	762.9	16.9
40°-50°	784.1	17.3
50°-60°	716.5	15.8
60°-70°	573.2	12.7
70°-80°	359.7	8.0
80°-90°	93.7	2.1
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°	1231.7	27.2
0°-40°	1994.5	44.1
0°-60°	3495.1	77.3
0°-90°	4521.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4521.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1614	1614	1614	1614	1614	
5°	1607	1607	1625	1614	1601	153
15°	1526	1528	1537	1546	1550	430
25°	1368	1376	1398	1423	1440	629
35°	1159	1174	1216	1262	1291	724
45°	924	948	1009	1084	1124	712
55°	682	715	798	886	930	610
65°	446	486	580	668	715	443
75°	231	275	354	407	429	245
85°	57	73	84	81	81	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1613.9	1613.9	1613.9	1613.9	1613.9
2.5°	1646.9	1640.3	1620.5	1607.3	1600.7
5°	1607.3	1607.3	1624.9	1613.9	1600.7
7.5°	1594.1	1594.1	1594.1	1627.1	1594.1
10°	1576.6	1578.8	1581.0	1594.1	1581.0
12.5°	1556.8	1556.8	1561.2	1565.6	1567.8
15°	1526.0	1528.2	1537.0	1545.8	1550.2
17.5°	1493.0	1499.6	1510.6	1521.6	1530.4
20°	1453.4	1462.2	1475.4	1493.0	1501.8
22.5°	1411.6	1420.4	1438.0	1457.8	1473.2
25°	1367.7	1376.5	1398.4	1422.6	1440.2
27.5°	1317.1	1328.1	1354.5	1387.5	1405.0
30°	1266.5	1279.7	1310.5	1347.9	1367.7
32.5°	1213.7	1229.1	1264.3	1306.1	1330.3
35°	1158.8	1174.2	1215.9	1262.1	1290.7
37.5°	1101.6	1119.2	1165.4	1218.1	1248.9
40°	1042.2	1062.0	1114.8	1172.0	1207.2
42.5°	982.9	1004.9	1062.0	1130.2	1165.4
45°	923.5	947.7	1009.3	1084.0	1123.6
47.5°	861.9	890.5	954.3	1037.8	1077.4
50°	802.6	831.2	903.7	989.5	1029.0
52.5°	741.0	774.0	850.9	938.9	980.7
55°	681.6	714.6	798.2	886.1	930.1
57.5°	622.3	655.2	743.2	833.4	877.3
60°	562.9	598.1	690.4	778.4	824.6
62.5°	503.5	540.9	635.5	725.6	769.6
65°	446.4	485.9	580.5	668.4	714.6
67.5°	391.4	433.2	525.5	611.3	657.4
70°	336.4	378.2	468.3	551.9	598.1
72.5°	283.6	325.4	413.4	488.1	523.3
75°	230.9	274.9	354.0	406.8	428.8
77.5°	180.3	224.3	292.4	327.6	351.8
80°	134.1	171.5	219.9	246.3	255.1
82.5°	92.4	123.1	153.9	160.5	164.9
85°	57.2	72.6	83.6	81.4	81.4
87.5°	26.4	28.6	24.2	17.6	11.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)