

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-L835-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-L835-CD1-U
Description: CRUZE 2x2 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4462.5 lumens
Efficiency: N/A
Efficacy: 111.6 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

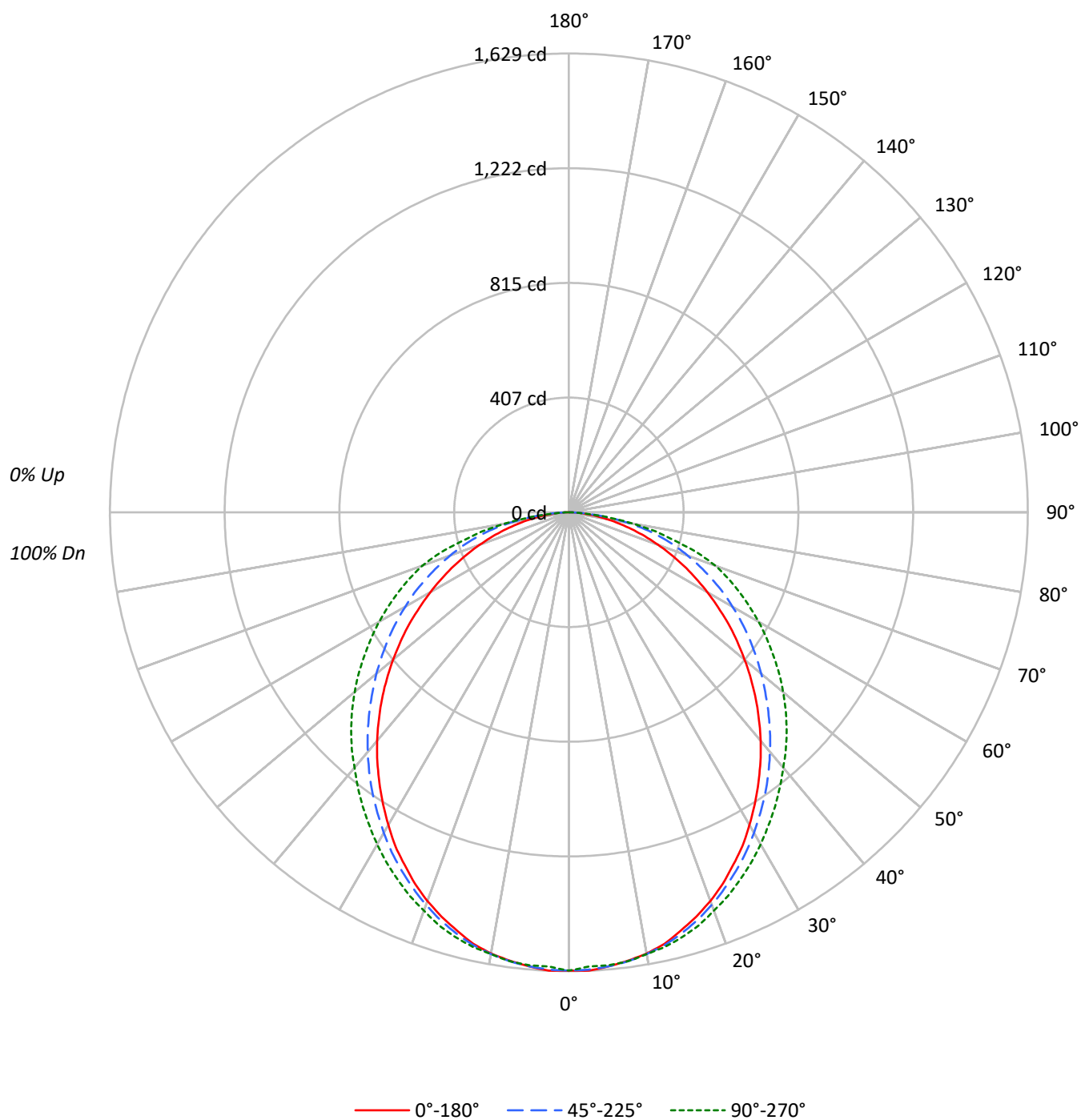
Input Watts (W): 40
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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°	4378	4378	4378
5°	4352	4345	4341
10°	4308	4298	4314
15°	4225	4231	4290
20°	4129	4141	4232
25°	4005	4035	4173
30°	3871	3923	4111
35°	3721	3804	4048
40°	3570	3682	3989
45°	3403	3558	3962
50°	3218	3443	3921
55°	3032	3334	3876
60°	2813	3217	3854
65°	2588	3093	3833
70°	2328	2951	3825
75°	2009	2768	3400
80°	1630	2324	2743
85°	1094	1354	1389



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.6	3.4
10°-20°	436.4	9.8
20°-30°	648.2	14.5
30°-40°	763.0	17.1
40°-50°	777.8	17.4
50°-60°	701.5	15.7
60°-70°	552.6	12.4
70°-80°	340.9	7.6
80°-90°	88.5	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°	1238.2	27.7
0°-40°	2001.2	44.8
0°-60°	3480.6	78.0
0°-90°	4462.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4462.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1627	1627	1627	1627	1627	
5°	1618	1620	1618	1616	1614	154
15°	1537	1543	1548	1556	1560	433
25°	1380	1389	1404	1428	1438	636
35°	1172	1185	1215	1254	1275	733
45°	939	954	1001	1061	1093	724
55°	692	716	782	853	885	618
65°	450	482	559	630	667	446
75°	229	268	336	375	388	245
85°	56	71	79	75	71	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1626.8	1626.8	1626.8	1626.8	1626.8
2.5°	1629.0	1629.0	1624.7	1620.4	1614.0
5°	1618.3	1620.4	1618.3	1616.1	1614.0
7.5°	1605.4	1607.6	1607.6	1607.6	1607.6
10°	1590.4	1592.6	1592.6	1592.6	1592.6
12.5°	1569.0	1571.1	1573.3	1575.4	1579.7
15°	1536.8	1543.3	1547.5	1556.1	1560.4
17.5°	1504.7	1511.1	1517.5	1528.2	1536.8
20°	1468.2	1472.5	1483.2	1496.1	1504.7
22.5°	1427.5	1433.9	1444.7	1461.8	1474.7
25°	1380.4	1388.9	1403.9	1427.5	1438.2
27.5°	1335.3	1341.8	1361.1	1386.8	1401.8
30°	1281.8	1290.3	1313.9	1346.1	1361.1
32.5°	1228.2	1238.9	1264.6	1301.0	1318.2
35°	1172.4	1185.3	1215.3	1253.9	1275.3
37.5°	1116.7	1129.6	1163.9	1206.7	1230.3
40°	1058.8	1071.7	1110.3	1157.4	1183.2
42.5°	998.8	1013.8	1056.7	1110.3	1140.3
45°	938.8	953.8	1001.0	1061.0	1093.1
47.5°	876.7	893.8	945.2	1011.7	1043.8
50°	814.5	833.8	891.7	960.2	992.4
52.5°	752.3	773.8	835.9	906.7	941.0
55°	692.3	715.9	782.3	853.1	885.2
57.5°	628.0	655.9	726.6	795.2	831.6
60°	568.0	598.0	670.9	739.5	778.1
62.5°	508.0	540.1	617.3	685.9	722.3
65°	450.1	482.3	559.4	630.2	666.6
67.5°	392.2	428.7	503.7	574.4	610.9
70°	336.5	375.1	448.0	516.6	553.0
72.5°	282.9	321.5	394.4	458.7	480.1
75°	229.3	267.9	336.5	375.1	388.0
77.5°	180.0	216.5	276.5	300.1	317.2
80°	135.0	167.2	210.1	225.1	227.2
82.5°	92.2	120.0	145.8	147.9	145.8
85°	55.7	70.7	79.3	75.0	70.7
87.5°	25.7	27.9	25.7	17.1	10.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)