

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: P259484

Luminaire Tested: **22CZ-LD5-44-S-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259484
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-L82765-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: 4498.0 lumens
Efficiency: N/A
Efficacy: 128.6 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

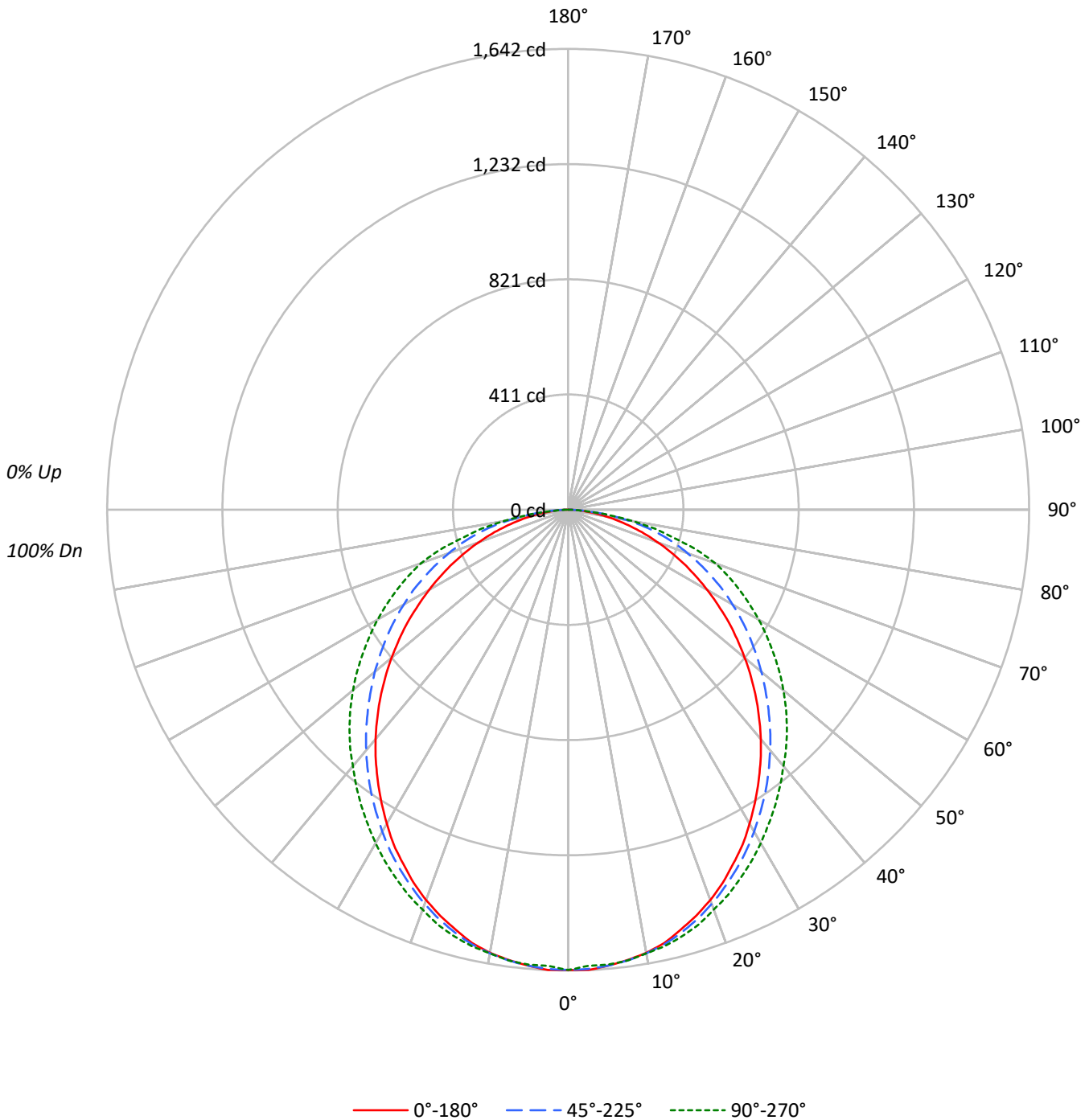
Input Watts (W): 34.968
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4413	4413	4413
5°	4406	4406	4394
10°	4380	4386	4386
15°	4315	4346	4382
20°	4238	4281	4343
25°	4131	4202	4304
30°	4015	4115	4263
35°	3882	4024	4223
40°	3749	3931	4189
45°	3601	3839	4193
50°	3437	3763	4188
55°	3274	3700	4186
60°	3081	3639	4221
65°	2889	3591	4278
70°	2669	3552	4386
75°	2404	3527	4065
80°	2109	3281	3549
85°	1735	2467	2201



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.8	3.4
10°-20°	439.9	9.8
20°-30°	653.3	14.5
30°-40°	769.0	17.1
40°-50°	784.0	17.4
50°-60°	707.1	15.7
60°-70°	557.0	12.4
70°-80°	343.6	7.6
80°-90°	89.2	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°	1248.1	27.7
0°-40°	2017.1	44.8
0°-60°	3508.3	78.0
0°-90°	4498.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4498.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1640	1640	1640	1640	1640	
5°	1631	1633	1631	1629	1627	155
15°	1549	1556	1560	1568	1573	437
25°	1391	1400	1415	1439	1450	641
35°	1182	1195	1225	1264	1286	739
45°	946	961	1009	1069	1102	729
55°	698	722	789	860	892	623
65°	454	486	564	635	672	449
75°	231	270	339	378	391	247
85°	56	71	80	76	71	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1639.8	1639.8	1639.8	1639.8	1639.8
2.5°	1641.9	1641.9	1637.6	1633.3	1626.8
5°	1631.1	1633.3	1631.1	1629.0	1626.8
7.5°	1618.2	1620.3	1620.3	1620.3	1620.3
10°	1603.1	1605.2	1605.2	1605.2	1605.2
12.5°	1581.5	1583.6	1585.8	1587.9	1592.3
15°	1549.0	1555.5	1559.9	1568.5	1572.8
17.5°	1516.6	1523.1	1529.6	1540.4	1549.0
20°	1479.9	1484.2	1495.0	1508.0	1516.6
22.5°	1438.9	1445.3	1456.1	1473.4	1486.4
25°	1391.3	1400.0	1415.1	1438.9	1449.7
27.5°	1346.0	1352.4	1371.9	1397.8	1412.9
30°	1292.0	1300.6	1324.4	1356.8	1371.9
32.5°	1237.9	1248.7	1274.7	1311.4	1328.7
35°	1181.8	1194.7	1225.0	1263.9	1285.5
37.5°	1125.6	1138.6	1173.1	1216.3	1240.1
40°	1067.3	1080.2	1119.1	1166.6	1192.6
42.5°	1006.8	1021.9	1065.1	1119.1	1149.4
45°	946.3	961.4	1008.9	1069.4	1101.8
47.5°	883.6	900.9	952.8	1019.7	1052.1
50°	821.0	840.4	898.8	967.9	1000.3
52.5°	758.3	779.9	842.6	913.9	948.4
55°	697.8	721.6	788.6	859.9	892.3
57.5°	633.0	661.1	732.4	801.5	838.3
60°	572.5	602.8	676.2	745.4	784.2
62.5°	512.0	544.4	622.2	691.3	728.1
65°	453.7	486.1	563.9	635.2	671.9
67.5°	395.4	432.1	507.7	579.0	615.7
70°	339.2	378.1	451.5	520.7	557.4
72.5°	285.2	324.1	397.5	462.3	483.9
75°	231.2	270.1	339.2	378.1	391.0
77.5°	181.5	218.2	278.7	302.5	319.7
80°	136.1	168.5	211.7	226.8	229.0
82.5°	92.9	121.0	146.9	149.1	146.9
85°	56.2	71.3	79.9	75.6	71.3
87.5°	25.9	28.1	25.9	17.3	10.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)