

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: P259537

Luminaire Tested: **22CZ-LD5-44-S-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259537
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-L92765-W2A1-U-3500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3856.0 lumens
Efficiency: N/A
Efficacy: 111.2 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

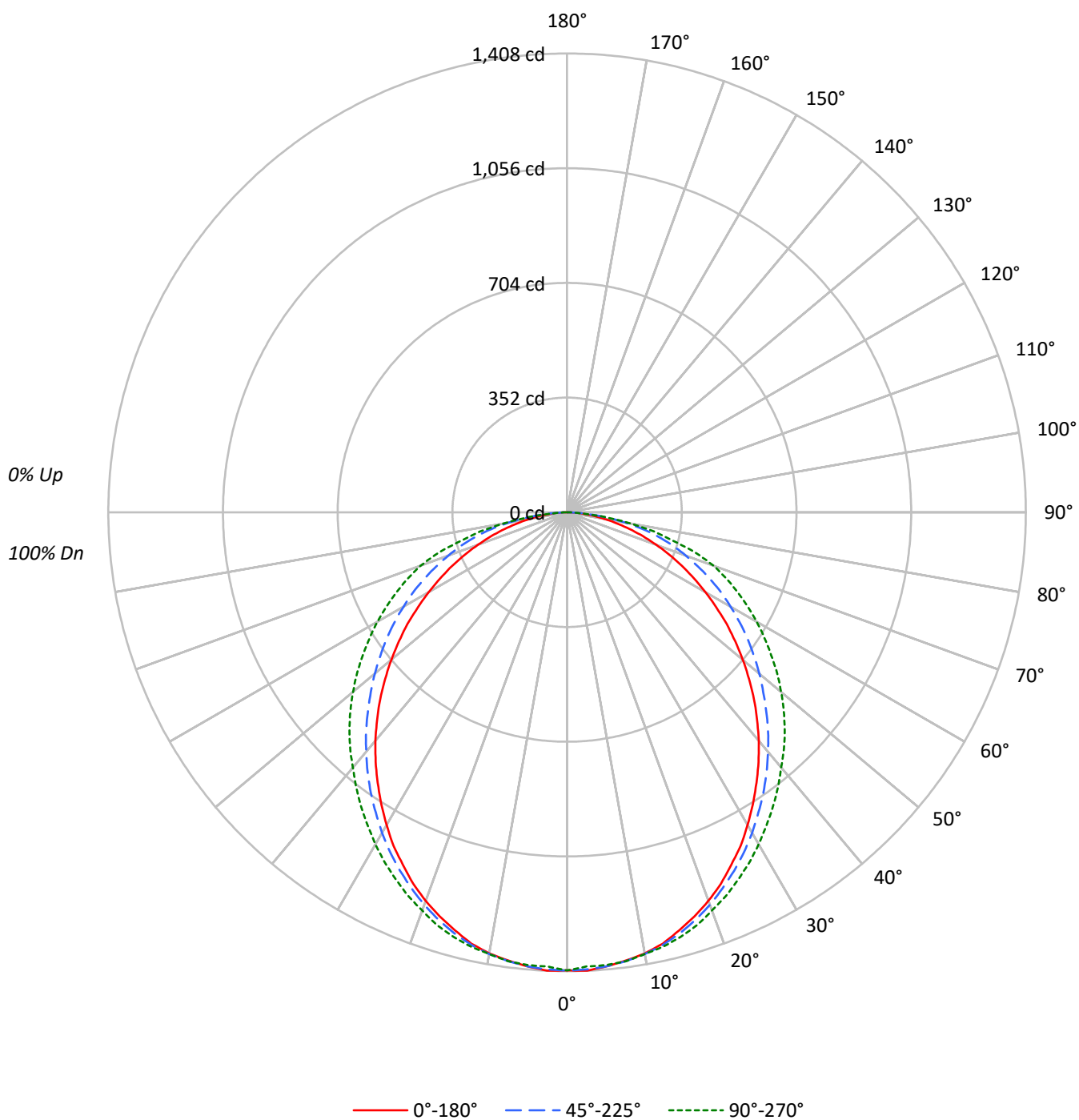
Input Watts (W): 34.689
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	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
1	109	104	99	95	106	101	97	94		97	94	91		93	91	88		90	87	85
2	99	90	83	77	96	88	82	77		85	79	75		81	77	73		78	75	71
3	90	79	71	64	87	78	70	64		75	68	63		72	66	62		69	64	60
4	82	70	61	54	80	69	61	54		66	59	53		64	58	53		62	56	52
5	76	63	54	47	74	62	53	47		59	52	46		57	51	46		56	50	45
6	70	56	47	41	68	56	47	41		54	46	40		52	45	40		50	44	40
7	65	51	42	36	63	50	42	36		49	41	36		47	41	36		46	40	35
8	60	47	38	32	59	46	38	32		45	37	32		43	37	32		42	36	32
9	56	43	35	29	55	42	34	29		41	34	29		40	34	29		39	33	29
10	53	40	32	26	52	39	32	26		38	31	26		37	31	26		36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3783	3783	3783
5°	3777	3777	3767
10°	3755	3760	3760
15°	3700	3725	3756
20°	3633	3670	3723
25°	3541	3602	3690
30°	3442	3528	3654
35°	3328	3450	3620
40°	3214	3370	3592
45°	3087	3291	3595
50°	2946	3226	3590
55°	2807	3172	3589
60°	2641	3120	3618
65°	2476	3078	3668
70°	2288	3046	3759
75°	2061	3023	3485
80°	1808	2813	3042
85°	1488	2115	1886



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.7	3.4
10°-20°	377.1	9.8
20°-30°	560.1	14.5
30°-40°	659.3	17.1
40°-50°	672.1	17.4
50°-60°	606.2	15.7
60°-70°	477.5	12.4
70°-80°	294.5	7.6
80°-90°	76.4	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°	1069.9	27.7
0°-40°	1729.2	44.8
0°-60°	3007.5	78.0
0°-90°	3856.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3856.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1406	1406	1406	1406	1406	
5°	1398	1400	1398	1396	1395	133
15°	1328	1334	1337	1345	1348	374
25°	1193	1200	1213	1234	1243	550
35°	1013	1024	1050	1084	1102	634
45°	811	824	865	917	945	625
55°	598	619	676	737	765	534
65°	389	417	483	544	576	385
75°	198	232	291	324	335	211
85°	48	61	68	65	61	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1405.7	1405.7	1405.7	1405.7	1405.7
2.5°	1407.6	1407.6	1403.9	1400.2	1394.6
5°	1398.3	1400.2	1398.3	1396.5	1394.6
7.5°	1387.2	1389.1	1389.1	1389.1	1389.1
10°	1374.3	1376.1	1376.1	1376.1	1376.1
12.5°	1355.7	1357.6	1359.4	1361.3	1365.0
15°	1328.0	1333.5	1337.2	1344.6	1348.3
17.5°	1300.2	1305.7	1311.3	1320.5	1328.0
20°	1268.7	1272.4	1281.6	1292.8	1300.2
22.5°	1233.5	1239.1	1248.3	1263.1	1274.2
25°	1192.7	1200.2	1213.1	1233.5	1242.8
27.5°	1153.9	1159.4	1176.1	1198.3	1211.3
30°	1107.6	1115.0	1135.3	1163.1	1176.1
32.5°	1061.3	1070.5	1092.7	1124.2	1139.0
35°	1013.1	1024.2	1050.1	1083.5	1102.0
37.5°	964.9	976.1	1005.7	1042.7	1063.1
40°	914.9	926.0	959.4	1000.1	1022.4
42.5°	863.1	876.0	913.1	959.4	985.3
45°	811.2	824.2	864.9	916.8	944.6
47.5°	757.5	772.3	816.8	874.2	902.0
50°	703.8	720.5	770.5	829.7	857.5
52.5°	650.1	668.6	722.3	783.4	813.1
55°	598.2	618.6	676.0	737.1	764.9
57.5°	542.7	566.7	627.9	687.1	718.6
60°	490.8	516.7	579.7	639.0	672.3
62.5°	438.9	466.7	533.4	592.7	624.2
65°	388.9	416.7	483.4	544.5	576.0
67.5°	338.9	370.4	435.2	496.4	527.8
70°	290.8	324.1	387.1	446.4	477.8
72.5°	244.5	277.8	340.8	396.3	414.9
75°	198.2	231.5	290.8	324.1	335.2
77.5°	155.6	187.1	238.9	259.3	274.1
80°	116.7	144.5	181.5	194.5	196.3
82.5°	79.6	103.7	125.9	127.8	125.9
85°	48.2	61.1	68.5	64.8	61.1
87.5°	22.2	24.1	22.2	14.8	9.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)