

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: P259534

Luminaire Tested: **22CZ-LD5-39-S-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259534
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-LD5-39-S-UNV-L92765-W2A1-U-6500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3812.0 lumens
Efficiency: N/A
Efficacy: 120.9 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

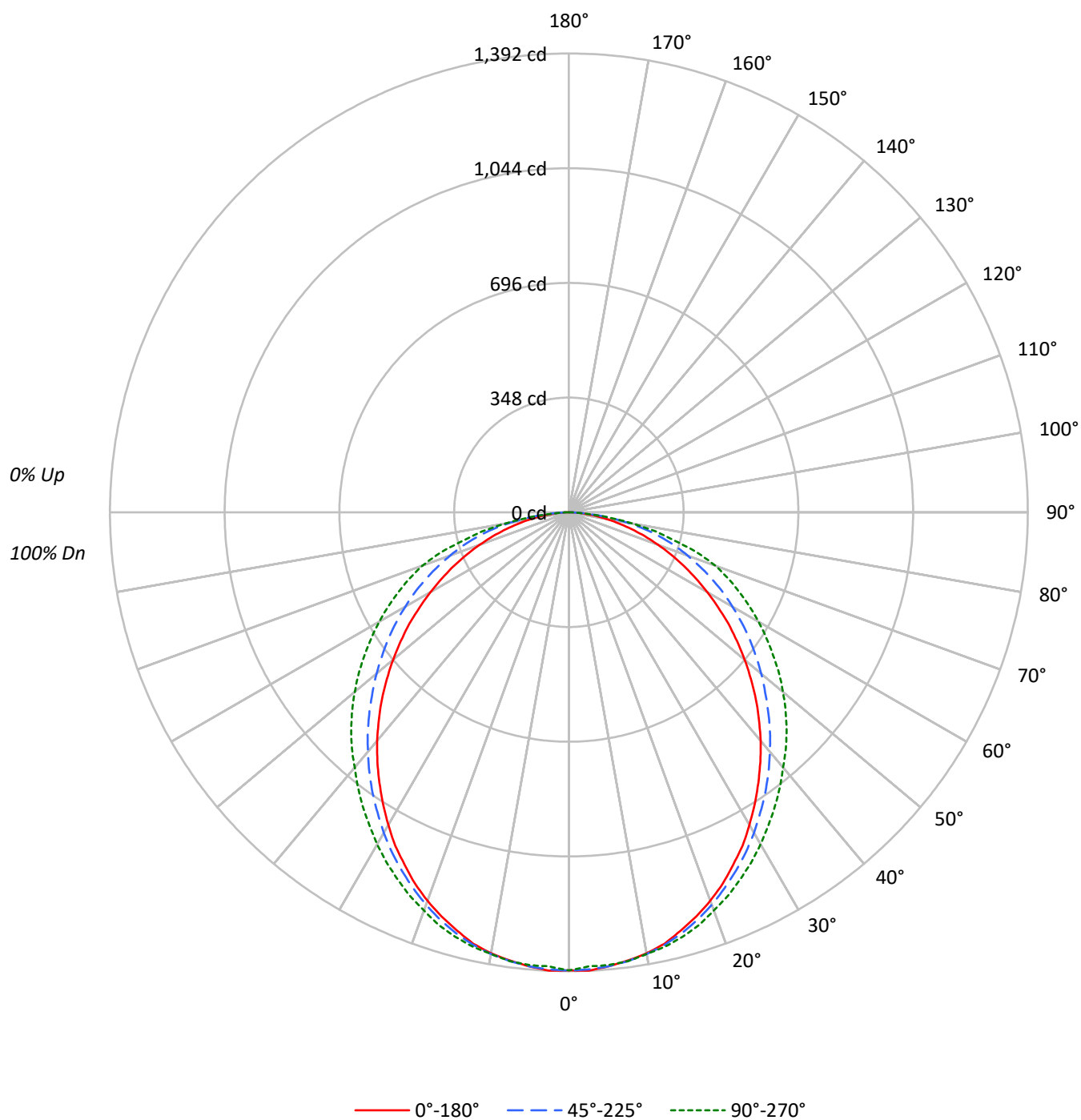
Input Watts (W): 31.527
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3740	3740	3740
5°	3734	3734	3724
10°	3712	3717	3717
15°	3657	3683	3713
20°	3592	3628	3681
25°	3501	3561	3648
30°	3402	3488	3613
35°	3290	3411	3579
40°	3177	3332	3550
45°	3052	3254	3554
50°	2913	3189	3549
55°	2775	3135	3548
60°	2611	3084	3577
65°	2448	3043	3626
70°	2262	3011	3717
75°	2037	2989	3446
80°	1788	2780	3008
85°	1470	2090	1865



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.2	3.4
10°-20°	372.8	9.8
20°-30°	553.7	14.5
30°-40°	651.8	17.1
40°-50°	664.5	17.4
50°-60°	599.3	15.7
60°-70°	472.0	12.4
70°-80°	291.2	7.6
80°-90°	75.6	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°	1057.7	27.7
0°-40°	1709.5	44.8
0°-60°	2973.2	78.0
0°-90°	3812.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3812.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1390	1390	1390	1390	1390	
5°	1382	1384	1382	1380	1379	131
15°	1313	1318	1322	1329	1333	370
25°	1179	1186	1199	1219	1229	543
35°	1002	1012	1038	1071	1089	627
45°	802	815	855	906	934	618
55°	591	612	668	729	756	528
65°	384	412	478	538	569	381
75°	196	229	288	320	331	209
85°	48	60	68	64	60	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1389.7	1389.7	1389.7	1389.7	1389.7
2.5°	1391.5	1391.5	1387.9	1384.2	1378.7
5°	1382.4	1384.2	1382.4	1380.5	1378.7
7.5°	1371.4	1373.2	1373.2	1373.2	1373.2
10°	1358.6	1360.4	1360.4	1360.4	1360.4
12.5°	1340.3	1342.1	1343.9	1345.8	1349.4
15°	1312.8	1318.3	1322.0	1329.3	1332.9
17.5°	1285.3	1290.8	1296.3	1305.5	1312.8
20°	1254.2	1257.9	1267.0	1278.0	1285.3
22.5°	1219.4	1224.9	1234.1	1248.7	1259.7
25°	1179.1	1186.5	1199.3	1219.4	1228.6
27.5°	1140.7	1146.2	1162.7	1184.6	1197.4
30°	1094.9	1102.2	1122.4	1149.8	1162.7
32.5°	1049.1	1058.3	1080.3	1111.4	1126.0
35°	1001.5	1012.5	1038.2	1071.1	1089.4
37.5°	953.9	964.9	994.2	1030.8	1051.0
40°	904.5	915.5	948.4	988.7	1010.7
42.5°	853.2	866.0	902.7	948.4	974.1
45°	802.0	814.8	855.1	906.3	933.8
47.5°	748.9	763.5	807.5	864.2	891.7
50°	695.8	712.2	761.7	820.3	847.7
52.5°	642.7	661.0	714.1	774.5	803.8
55°	591.4	611.5	668.3	728.7	756.2
57.5°	536.5	560.3	620.7	679.3	710.4
60°	485.2	510.8	573.1	631.7	664.6
62.5°	433.9	461.4	527.3	585.9	617.0
65°	384.5	412.0	477.9	538.3	569.4
67.5°	335.1	366.2	430.3	490.7	521.8
70°	287.5	320.4	382.7	441.3	472.4
72.5°	241.7	274.6	336.9	391.8	410.1
75°	195.9	228.9	287.5	320.4	331.4
77.5°	153.8	184.9	236.2	256.3	271.0
80°	115.4	142.8	179.4	192.3	194.1
82.5°	78.7	102.5	124.5	126.3	124.5
85°	47.6	60.4	67.7	64.1	60.4
87.5°	22.0	23.8	22.0	14.6	9.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)