

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: P259308

Luminaire Tested: **22CZ-LD5-39-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259308
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-LD5-39-UNV-L82765-W2A1-U-4500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4000.0 lumens
Efficiency: N/A
Efficacy: 130.3 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.26 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

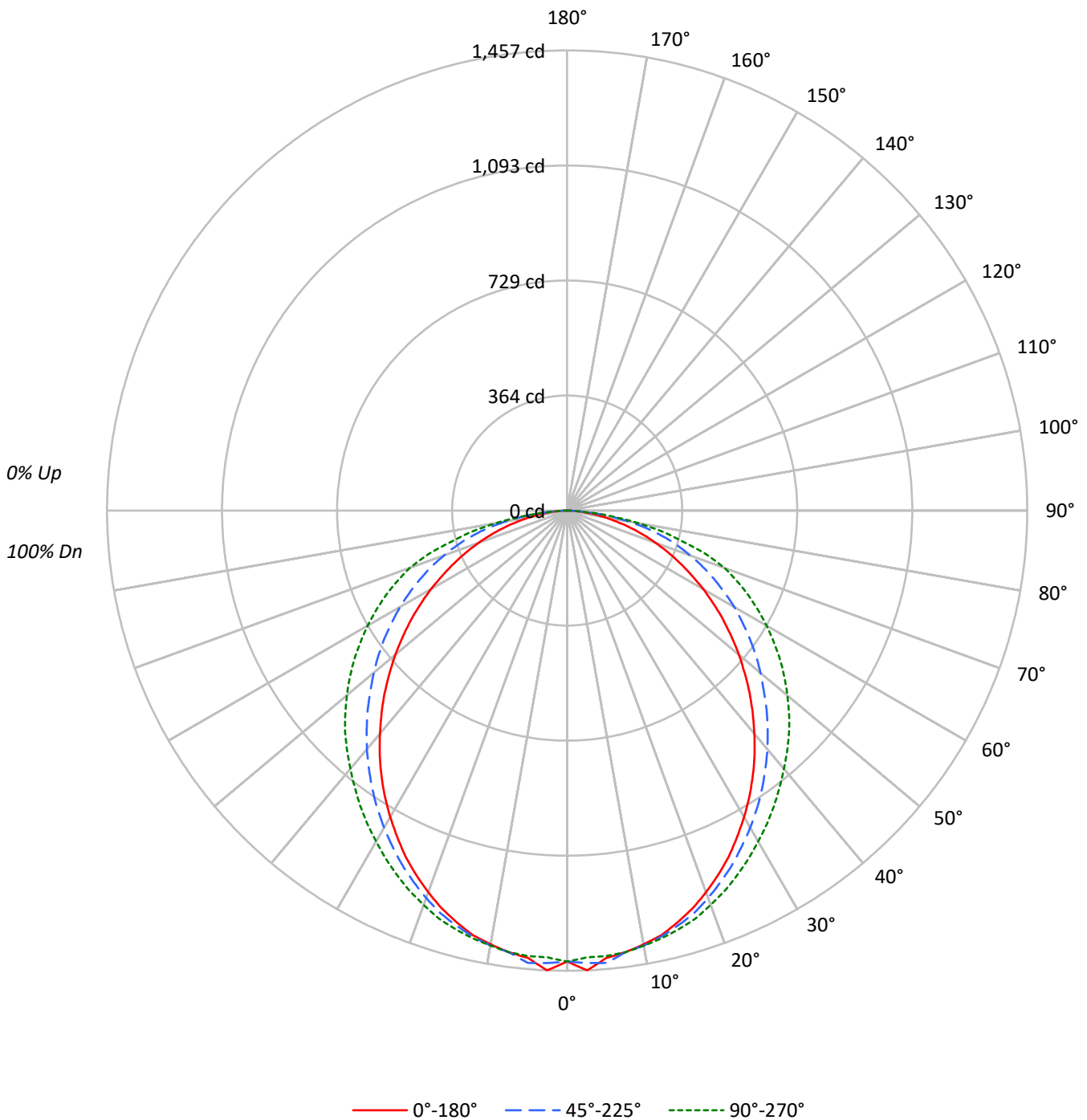
Input Watts (W): 30.69
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3842	3842	3842
5°	3841	3883	3825
10°	3811	3822	3822
15°	3761	3788	3820
20°	3682	3738	3804
25°	3592	3673	3783
30°	3481	3602	3759
35°	3368	3534	3751
40°	3239	3464	3751
45°	3109	3398	3783
50°	2972	3347	3811
55°	2829	3313	3860
60°	2680	3287	3926
65°	2514	3270	4025
70°	2341	3260	4163
75°	2123	3256	3944
80°	1839	3014	3496
85°	1562	2282	2223



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.4	3.4
10°-20°	383.6	9.6
20°-30°	570.6	14.3
30°-40°	674.9	16.9
40°-50°	693.6	17.3
50°-60°	633.8	15.8
60°-70°	507.0	12.7
70°-80°	318.2	8.0
80°-90°	82.9	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°	1089.6	27.2
0°-40°	1764.4	44.1
0°-60°	3091.9	77.3
0°-90°	4000.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4000.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1428	1428	1428	1428	1428	
5°	1422	1422	1438	1428	1416	135
15°	1350	1352	1360	1367	1371	380
25°	1210	1218	1237	1258	1274	556
35°	1025	1039	1076	1116	1142	641
45°	817	838	893	959	994	630
55°	603	632	706	784	823	539
65°	395	430	514	591	632	392
75°	204	243	313	360	379	217
85°	51	64	74	72	72	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1427.7	1427.7	1427.7	1427.7	1427.7
2.5°	1456.9	1451.1	1433.6	1421.9	1416.1
5°	1421.9	1421.9	1437.5	1427.7	1416.1
7.5°	1410.2	1410.2	1410.2	1439.4	1410.2
10°	1394.7	1396.6	1398.6	1410.2	1398.6
12.5°	1377.2	1377.2	1381.1	1384.9	1386.9
15°	1349.9	1351.9	1359.7	1367.4	1371.3
17.5°	1320.8	1326.6	1336.3	1346.0	1353.8
20°	1285.7	1293.5	1305.2	1320.8	1328.5
22.5°	1248.8	1256.6	1272.1	1289.6	1303.2
25°	1209.9	1217.7	1237.1	1258.5	1274.1
27.5°	1165.1	1174.9	1198.2	1227.4	1242.9
30°	1120.4	1132.1	1159.3	1192.4	1209.9
32.5°	1073.7	1087.3	1118.5	1155.4	1176.8
35°	1025.1	1038.7	1075.7	1116.5	1141.8
37.5°	974.5	990.1	1030.9	1077.6	1104.8
40°	922.0	939.5	986.2	1036.8	1067.9
42.5°	869.5	888.9	939.5	999.8	1030.9
45°	817.0	838.4	892.8	959.0	994.0
47.5°	762.5	787.8	844.2	918.1	953.1
50°	710.0	735.3	799.5	875.3	910.3
52.5°	655.5	684.7	752.8	830.6	867.5
55°	603.0	632.2	706.1	783.9	822.8
57.5°	550.5	579.7	657.5	737.2	776.1
60°	498.0	529.1	610.8	688.6	729.4
62.5°	445.4	478.5	562.1	641.9	680.8
65°	394.9	429.9	513.5	591.3	632.2
67.5°	346.2	383.2	464.9	540.7	581.6
70°	297.6	334.6	414.3	488.2	529.1
72.5°	250.9	287.9	365.7	431.8	462.9
75°	204.2	243.1	313.2	359.9	379.3
77.5°	159.5	198.4	258.7	289.8	311.2
80°	118.7	151.7	194.5	217.9	225.6
82.5°	81.7	108.9	136.2	142.0	145.9
85°	50.6	64.2	73.9	72.0	72.0
87.5°	23.3	25.3	21.4	15.6	9.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)