

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: P259533

Luminaire Tested: **22CZ-LD5-39-S-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259533
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-5700K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3786.0 lumens
Efficiency: N/A
Efficacy: 121.9 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

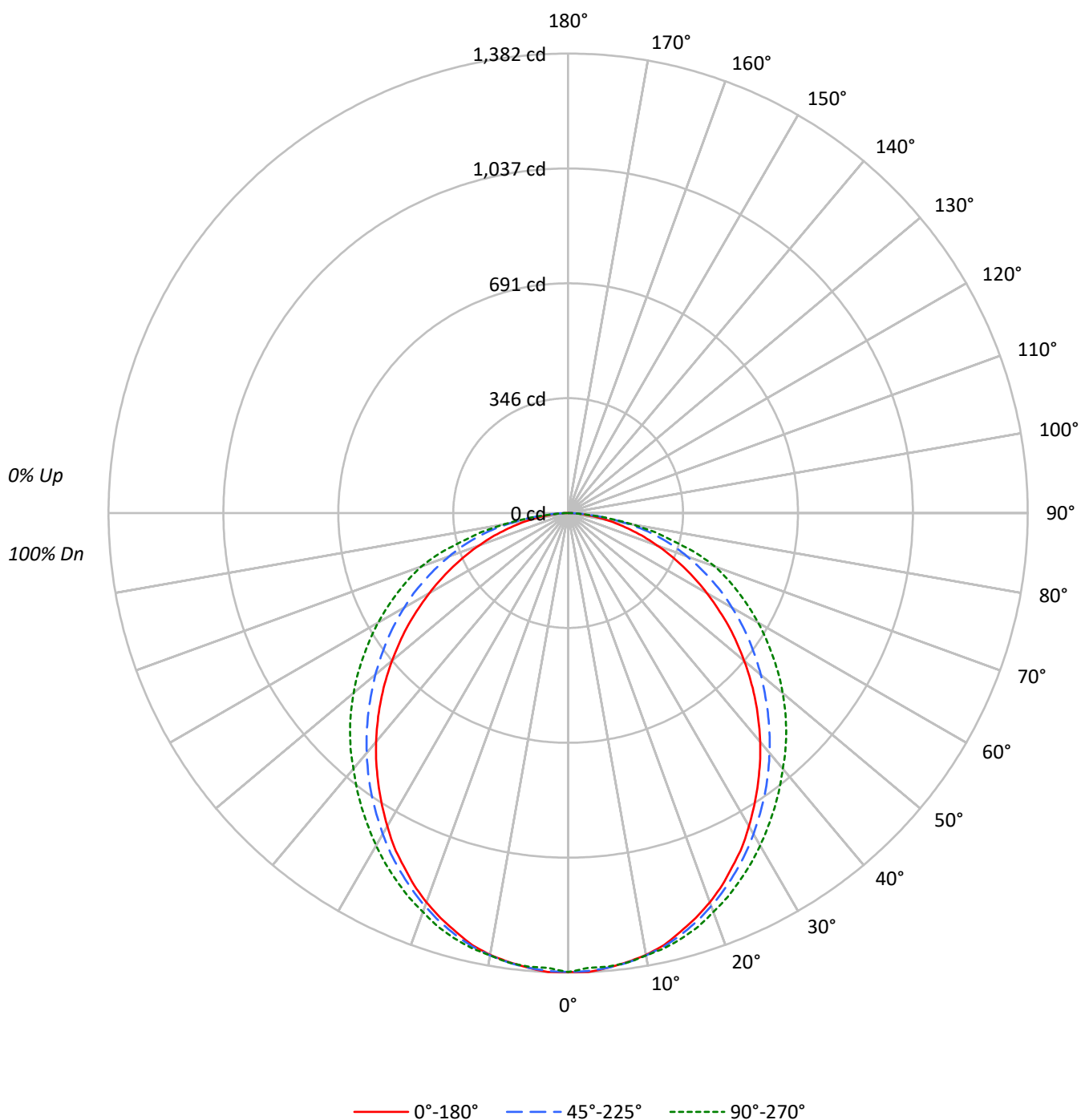
Input Watts (W): 31.062
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3714	3714	3714
5°	3709	3709	3699
10°	3687	3692	3692
15°	3632	3658	3688
20°	3567	3604	3656
25°	3477	3537	3623
30°	3379	3464	3588
35°	3268	3387	3554
40°	3156	3309	3526
45°	3031	3232	3529
50°	2893	3167	3525
55°	2756	3114	3523
60°	2594	3063	3553
65°	2432	3022	3601
70°	2246	2991	3692
75°	2023	2968	3422
80°	1776	2762	2988
85°	1460	2078	1853



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.3	3.4
10°-20°	370.3	9.8
20°-30°	549.9	14.5
30°-40°	647.3	17.1
40°-50°	659.9	17.4
50°-60°	595.2	15.7
60°-70°	468.8	12.4
70°-80°	289.2	7.6
80°-90°	75.1	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°	1050.5	27.7
0°-40°	1697.8	44.8
0°-60°	2952.9	78.0
0°-90°	3786.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3786.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1380	1380	1380	1380	1380	
5°	1373	1375	1373	1371	1369	130
15°	1304	1309	1313	1320	1324	368
25°	1171	1178	1191	1211	1220	540
35°	995	1006	1031	1064	1082	622
45°	796	809	849	900	927	614
55°	587	607	664	724	751	524
65°	382	409	475	535	566	378
75°	195	227	286	318	329	208
85°	47	60	67	64	60	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1380.2	1380.2	1380.2	1380.2	1380.2
2.5°	1382.0	1382.0	1378.4	1374.8	1369.3
5°	1372.9	1374.8	1372.9	1371.1	1369.3
7.5°	1362.0	1363.9	1363.9	1363.9	1363.9
10°	1349.3	1351.1	1351.1	1351.1	1351.1
12.5°	1331.1	1332.9	1334.8	1336.6	1340.2
15°	1303.8	1309.3	1312.9	1320.2	1323.8
17.5°	1276.6	1282.0	1287.5	1296.6	1303.8
20°	1245.7	1249.3	1258.4	1269.3	1276.6
22.5°	1211.1	1216.6	1225.7	1240.2	1251.1
25°	1171.1	1178.4	1191.1	1211.1	1220.2
27.5°	1132.9	1138.4	1154.7	1176.6	1189.3
30°	1087.4	1094.7	1114.7	1142.0	1154.7
32.5°	1042.0	1051.1	1072.9	1103.8	1118.4
35°	994.7	1005.6	1031.1	1063.8	1082.0
37.5°	947.4	958.3	987.4	1023.8	1043.8
40°	898.3	909.2	942.0	982.0	1003.8
42.5°	847.4	860.1	896.5	942.0	967.4
45°	796.5	809.2	849.2	900.1	927.4
47.5°	743.8	758.3	801.9	858.3	885.6
50°	691.0	707.4	756.5	814.7	842.0
52.5°	638.3	656.5	709.2	769.2	798.3
55°	587.4	607.4	663.7	723.8	751.0
57.5°	532.8	556.5	616.5	674.7	705.6
60°	481.9	507.4	569.2	627.4	660.1
62.5°	431.0	458.3	523.7	581.9	612.8
65°	381.9	409.2	474.6	534.6	565.5
67.5°	332.8	363.7	427.3	487.4	518.3
70°	285.5	318.2	380.1	438.3	469.2
72.5°	240.0	272.8	334.6	389.2	407.3
75°	194.6	227.3	285.5	318.2	329.1
77.5°	152.8	183.7	234.6	254.6	269.1
80°	114.6	141.8	178.2	190.9	192.8
82.5°	78.2	101.8	123.7	125.5	123.7
85°	47.3	60.0	67.3	63.6	60.0
87.5°	21.8	23.6	21.8	14.5	9.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)