

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: P259265

Luminaire Tested: **22CZ-LD5-44-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259265
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-LD5-44-UNV-L93050-W2A1-U-4000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4056.0 lumens
Efficiency: N/A
Efficacy: 114.3 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

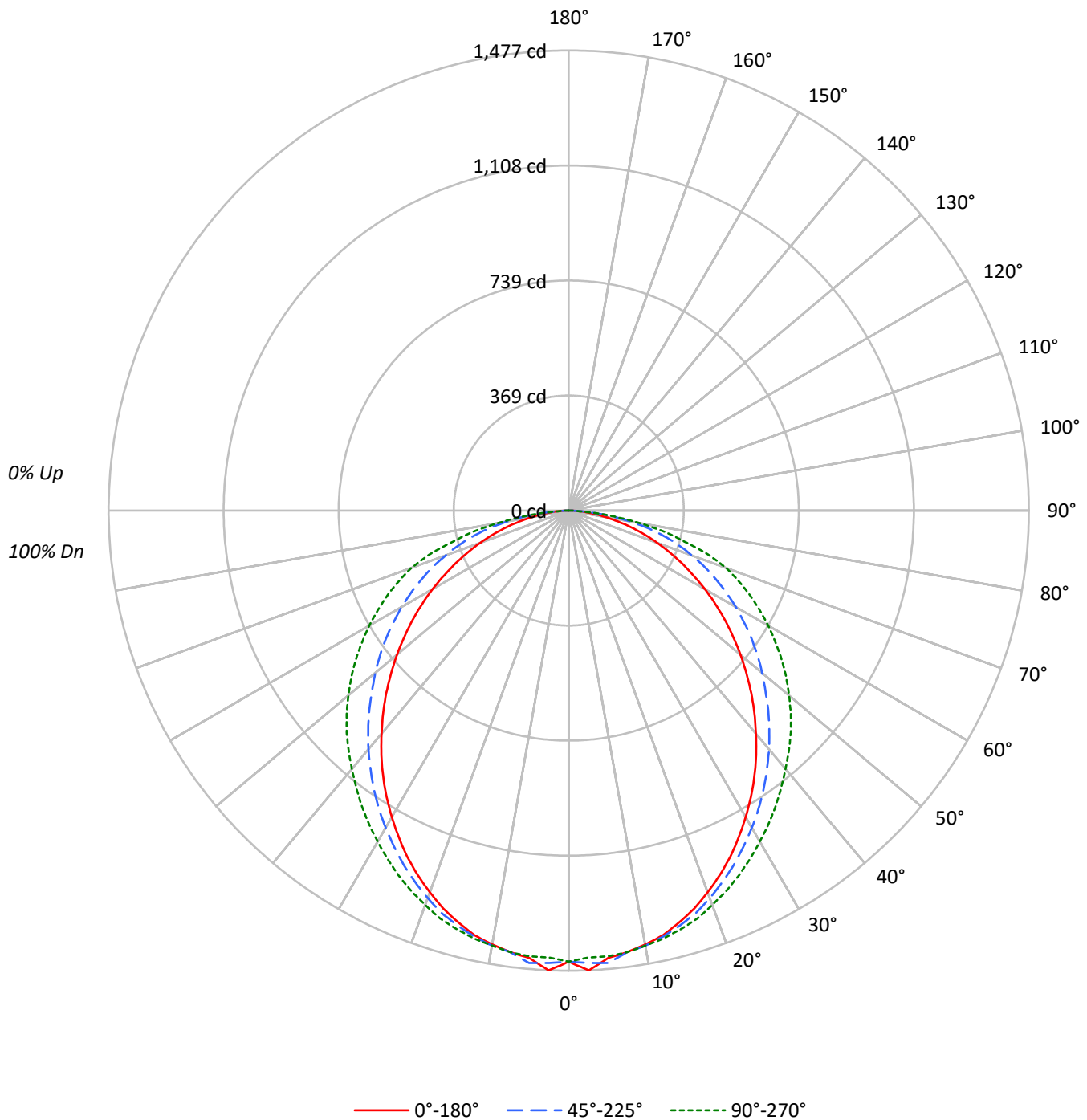
Input Watts (W): 35.495496
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	108	104	99	95	106	101	97	94	97	94	91		93	90	88		89
2	98	90	83	77	96	88	82	76	84	79	74		81	77	73		78
3	90	79	70	64	87	77	69	63	74	68	62		71	66	61		69
4	82	70	61	54	80	68	60	54	66	59	53		64	57	52		61
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		55
6	70	56	47	41	68	55	47	40	53	46	40		52	45	40		50
7	65	51	42	36	63	50	42	36	48	41	35		47	40	35		46
8	60	46	38	32	58	46	38	32	44	37	32		43	36	31		42
9	56	43	34	29	55	42	34	29	41	34	29		40	33	28		39
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3896	3896	3896
5°	3895	3937	3879
10°	3864	3875	3875
15°	3813	3841	3874
20°	3733	3790	3858
25°	3643	3725	3836
30°	3530	3653	3812
35°	3415	3583	3803
40°	3284	3513	3804
45°	3153	3445	3836
50°	3014	3394	3864
55°	2868	3359	3914
60°	2717	3333	3980
65°	2550	3316	4082
70°	2375	3305	4221
75°	2153	3302	3999
80°	1864	3056	3546
85°	1584	2316	2254



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.3	3.4
10°-20°	388.9	9.6
20°-30°	578.6	14.3
30°-40°	684.3	16.9
40°-50°	703.4	17.3
50°-60°	642.7	15.8
60°-70°	514.1	12.7
70°-80°	322.7	8.0
80°-90°	84.0	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°	1104.8	27.2
0°-40°	1789.1	44.1
0°-60°	3135.2	77.3
0°-90°	4056.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4056.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1448	1448	1448	1448	1448	
5°	1442	1442	1458	1448	1436	137
15°	1369	1371	1379	1387	1390	386
25°	1227	1235	1254	1276	1292	564
35°	1039	1053	1091	1132	1158	650
45°	828	850	905	972	1008	639
55°	611	641	716	795	834	547
65°	400	436	521	600	641	397
75°	207	246	318	365	385	220
85°	51	65	75	73	73	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1447.7	1447.7	1447.7	1447.7	1447.7
2.5°	1477.3	1471.4	1453.6	1441.8	1435.9
5°	1441.8	1441.8	1457.6	1447.7	1435.9
7.5°	1430.0	1430.0	1430.0	1459.6	1430.0
10°	1414.2	1416.2	1418.1	1430.0	1418.1
12.5°	1396.4	1396.4	1400.4	1404.3	1406.3
15°	1368.8	1370.8	1378.7	1386.6	1390.5
17.5°	1339.2	1345.2	1355.0	1364.9	1372.8
20°	1303.7	1311.6	1323.5	1339.2	1347.1
22.5°	1266.3	1274.2	1289.9	1307.7	1321.5
25°	1226.8	1234.7	1254.4	1276.1	1291.9
27.5°	1181.5	1191.3	1215.0	1244.6	1260.3
30°	1136.1	1147.9	1175.5	1209.1	1226.8
32.5°	1088.8	1102.6	1134.1	1171.6	1193.3
35°	1039.4	1053.2	1090.7	1132.1	1157.8
37.5°	988.2	1003.9	1045.4	1092.7	1120.3
40°	934.9	952.7	1000.0	1051.3	1082.8
42.5°	881.7	901.4	952.7	1013.8	1045.4
45°	828.4	850.1	905.3	972.4	1007.9
47.5°	773.2	798.8	856.0	931.0	966.5
50°	719.9	745.6	810.6	887.6	923.1
52.5°	664.7	694.3	763.3	842.2	879.7
55°	611.4	641.0	716.0	794.9	834.3
57.5°	558.2	587.8	666.7	747.5	787.0
60°	504.9	536.5	619.3	698.2	739.6
62.5°	451.7	485.2	570.0	650.9	690.3
65°	400.4	435.9	520.7	599.6	641.0
67.5°	351.1	388.6	471.4	548.3	589.7
70°	301.8	339.2	420.1	495.1	536.5
72.5°	254.4	291.9	370.8	437.9	469.4
75°	207.1	246.5	317.6	364.9	384.6
77.5°	161.7	201.2	262.3	293.9	315.6
80°	120.3	153.8	197.2	220.9	228.8
82.5°	82.8	110.5	138.1	144.0	147.9
85°	51.3	65.1	75.0	73.0	73.0
87.5°	23.7	25.6	21.7	15.8	9.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)