

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: P259263

Luminaire Tested: **22CZ-LD5-44-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259263
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-3000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3437.0 lumens
Efficiency: N/A
Efficacy: 97.1 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

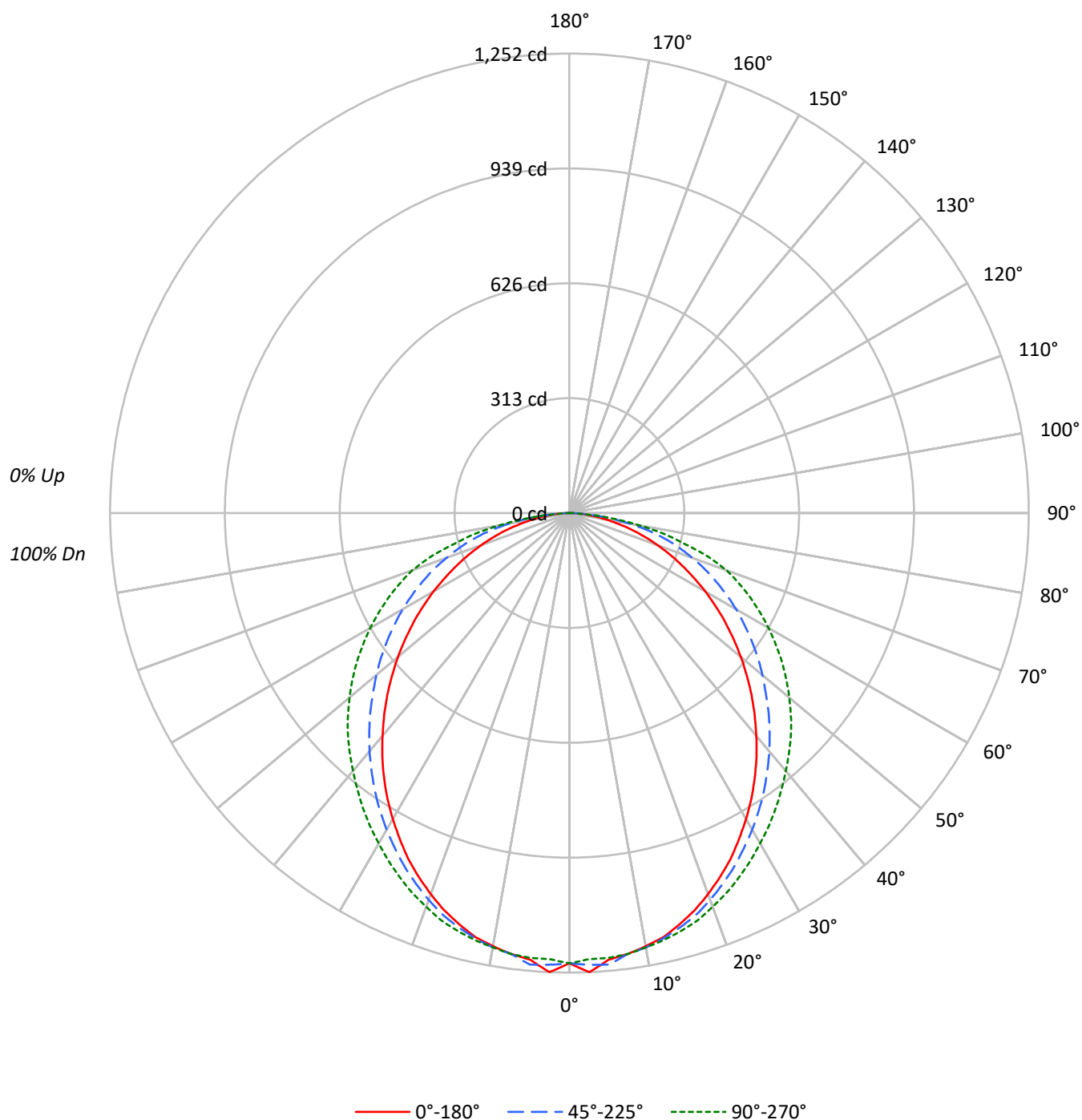
Input Watts (W): 35.391708
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P259263

CATALOG NUMBER: 22CZ-LD5-44-UNV-L93050-W2A1-U-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P259263

CATALOG NUMBER: 22CZ-LD5-44-UNV-L93050-W2A1-U-3000K

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°	3301	3301	3301
5°	3300	3336	3287
10°	3275	3284	3284
15°	3231	3255	3283
20°	3164	3212	3269
25°	3087	3156	3250
30°	2991	3095	3230
35°	2893	3036	3223
40°	2783	2977	3223
45°	2672	2920	3250
50°	2554	2876	3275
55°	2431	2846	3317
60°	2303	2824	3373
65°	2160	2809	3459
70°	2012	2801	3577
75°	1825	2798	3388
80°	1581	2590	3005
85°	1343	1961	1908



TEST NUMBER: P259263

CATALOG NUMBER: 22CZ-LD5-44-UNV-L93050-W2A1-U-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.4	3.4
10°-20°	329.6	9.6
20°-30°	490.3	14.3
30°-40°	579.9	16.9
40°-50°	596.0	17.3
50°-60°	544.6	15.8
60°-70°	435.7	12.7
70°-80°	273.4	8.0
80°-90°	71.2	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°	936.2	27.2
0°-40°	1516.1	44.1
0°-60°	2656.7	77.3
0°-90°	3437.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3437.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1227	1227	1227	1227	1227	
5°	1222	1222	1235	1227	1217	116
15°	1160	1162	1168	1175	1178	327
25°	1040	1046	1063	1081	1095	478
35°	881	892	924	959	981	550
45°	702	720	767	824	854	541
55°	518	543	607	674	707	463
65°	339	369	441	508	543	337
75°	176	209	269	309	326	186
85°	44	55	64	62	62	50
90°	0	0	0	0	0	



TEST NUMBER: P259263

CATALOG NUMBER: 22CZ-LD5-44-UNV-L93050-W2A1-U-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1226.8	1226.8	1226.8	1226.8	1226.8
2.5°	1251.9	1246.8	1231.8	1221.8	1216.8
5°	1221.8	1221.8	1235.1	1226.8	1216.8
7.5°	1211.7	1211.7	1211.7	1236.8	1211.7
10°	1198.4	1200.0	1201.7	1211.7	1201.7
12.5°	1183.3	1183.3	1186.7	1190.0	1191.7
15°	1159.9	1161.6	1168.3	1175.0	1178.3
17.5°	1134.9	1139.9	1148.2	1156.6	1163.3
20°	1104.8	1111.5	1121.5	1134.9	1141.5
22.5°	1073.0	1079.7	1093.1	1108.1	1119.8
25°	1039.6	1046.3	1063.0	1081.4	1094.7
27.5°	1001.1	1009.5	1029.6	1054.6	1068.0
30°	962.7	972.7	996.1	1024.5	1039.6
32.5°	922.6	934.3	961.0	992.8	1011.2
35°	880.8	892.5	924.3	959.4	981.1
37.5°	837.4	850.7	885.8	925.9	949.3
40°	792.2	807.3	847.4	890.8	917.6
42.5°	747.1	763.8	807.3	859.1	885.8
45°	702.0	720.4	767.2	824.0	854.1
47.5°	655.2	676.9	725.4	788.9	819.0
50°	610.0	631.8	686.9	752.1	782.2
52.5°	563.2	588.3	646.8	713.7	745.4
55°	518.1	543.2	606.7	673.6	707.0
57.5°	473.0	498.1	564.9	633.4	666.9
60°	427.9	454.6	524.8	591.7	626.8
62.5°	382.7	411.2	483.0	551.6	585.0
65°	339.3	369.4	441.2	508.1	543.2
67.5°	297.5	329.3	399.5	464.6	499.7
70°	255.7	287.5	356.0	419.5	454.6
72.5°	215.6	247.4	314.2	371.0	397.8
75°	175.5	208.9	269.1	309.2	325.9
77.5°	137.1	170.5	222.3	249.0	267.4
80°	102.0	130.4	167.1	187.2	193.9
82.5°	70.2	93.6	117.0	122.0	125.4
85°	43.5	55.2	63.5	61.8	61.8
87.5°	20.1	21.7	18.4	13.4	8.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)