

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: P286929

Luminaire Tested: **22CZ-LD5-44-S-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P286929
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-LD5-44-S-UNV-L92765-W2A1-U-6500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED @ 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4277.0 lumens
Efficiency: N/A
Efficacy: 118.2 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

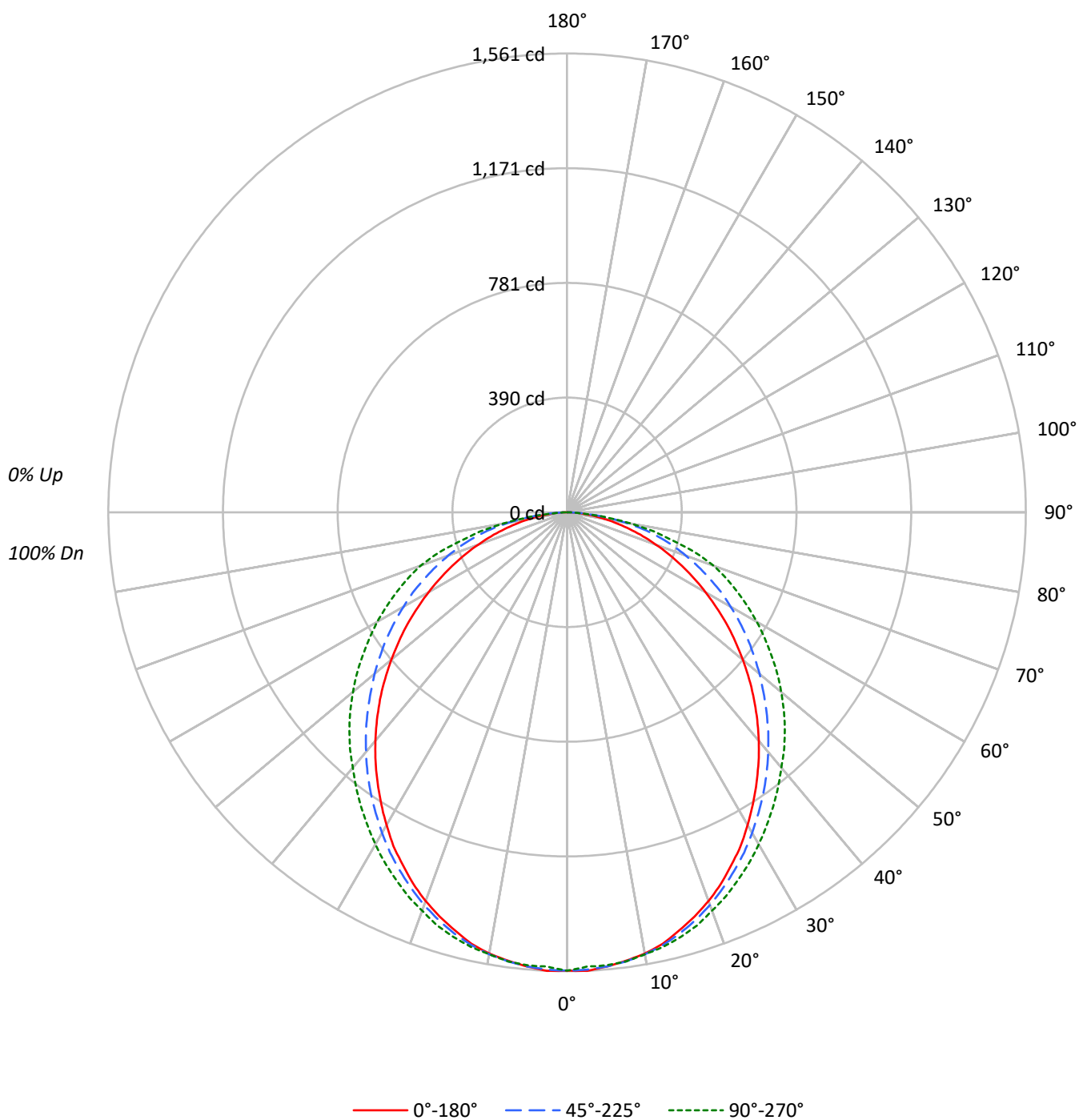
Input Watts (W): 36.177
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P286929

CATALOG NUMBER: 22CZ-LD5-44-S-UNV-L92765-W2A1-U-6500K

Luminous Intensity Polar Plot





TEST NUMBER: P286929

CATALOG NUMBER: 22CZ-LD5-44-S-UNV-L92765-W2A1-U-6500K

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°	4196	4196	4196
5°	4190	4190	4179
10°	4165	4171	4171
15°	4103	4132	4166
20°	4030	4071	4130
25°	3928	3995	4093
30°	3817	3913	4053
35°	3691	3826	4015
40°	3565	3738	3984
45°	3424	3651	3987
50°	3268	3578	3982
55°	3113	3518	3980
60°	2930	3461	4013
65°	2747	3414	4068
70°	2537	3378	4170
75°	2285	3353	3866
80°	2005	3119	3375
85°	1649	2347	2093



TEST NUMBER: P286929

CATALOG NUMBER: 22CZ-LD5-44-S-UNV-L92765-W2A1-U-6500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.2	3.4
10°-20°	418.3	9.8
20°-30°	621.2	14.5
30°-40°	731.3	17.1
40°-50°	745.5	17.4
50°-60°	672.4	15.7
60°-70°	529.6	12.4
70°-80°	326.7	7.6
80°-90°	84.8	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°	1186.8	27.7
0°-40°	1918.0	44.8
0°-60°	3335.9	78.0
0°-90°	4277.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4277.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1559	1559	1559	1559	1559	
5°	1551	1553	1551	1549	1547	147
15°	1473	1479	1483	1491	1496	415
25°	1323	1331	1346	1368	1378	610
35°	1124	1136	1165	1202	1222	703
45°	900	914	959	1017	1048	694
55°	664	686	750	818	848	592
65°	431	462	536	604	639	427
75°	220	257	322	360	372	235
85°	53	68	76	72	68	63
90°	0	0	0	0	0	



TEST NUMBER: P286929

CATALOG NUMBER: 22CZ-LD5-44-S-UNV-L92765-W2A1-U-6500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1559.2	1559.2	1559.2	1559.2	1559.2
2.5°	1561.3	1561.3	1557.2	1553.1	1546.9
5°	1551.0	1553.1	1551.0	1548.9	1546.9
7.5°	1538.7	1540.7	1540.7	1540.7	1540.7
10°	1524.3	1526.4	1526.4	1526.4	1526.4
12.5°	1503.8	1505.8	1507.9	1509.9	1514.0
15°	1472.9	1479.1	1483.2	1491.4	1495.5
17.5°	1442.1	1448.3	1454.4	1464.7	1472.9
20°	1407.2	1411.3	1421.6	1433.9	1442.1
22.5°	1368.2	1374.3	1384.6	1401.0	1413.4
25°	1323.0	1331.2	1345.6	1368.2	1378.4
27.5°	1279.8	1286.0	1304.5	1329.1	1343.5
30°	1228.5	1236.7	1259.3	1290.1	1304.5
32.5°	1177.1	1187.4	1212.0	1247.0	1263.4
35°	1123.7	1136.0	1164.8	1201.8	1222.3
37.5°	1070.3	1082.6	1115.5	1156.6	1179.2
40°	1014.8	1027.2	1064.1	1109.3	1134.0
42.5°	957.3	971.7	1012.8	1064.1	1092.9
45°	899.8	914.2	959.4	1016.9	1047.7
47.5°	840.2	856.6	905.9	969.6	1000.4
50°	780.6	799.1	854.6	920.3	951.1
52.5°	721.1	741.6	801.2	869.0	901.8
55°	663.5	686.1	749.8	817.6	848.4
57.5°	601.9	628.6	696.4	762.1	797.1
60°	544.4	573.2	643.0	708.7	745.7
62.5°	486.9	517.7	591.6	657.4	692.3
65°	431.4	462.2	536.2	604.0	638.9
67.5°	375.9	410.9	482.8	550.6	585.5
70°	322.5	359.5	429.4	495.1	530.0
72.5°	271.2	308.1	378.0	439.6	460.2
75°	219.8	256.8	322.5	359.5	371.8
77.5°	172.6	207.5	265.0	287.6	304.0
80°	129.4	160.2	201.3	215.7	217.8
82.5°	88.3	115.0	139.7	141.7	139.7
85°	53.4	67.8	76.0	71.9	67.8
87.5°	24.7	26.7	24.7	16.4	10.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)