

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: P260352

Luminaire Tested: **22CZ-LD5-29-SQP-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260352
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25713)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-29-SQP-UNV-L92765-W2A1-U-4500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1616.0 lumens
Efficiency: N/A
Efficacy: 76.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

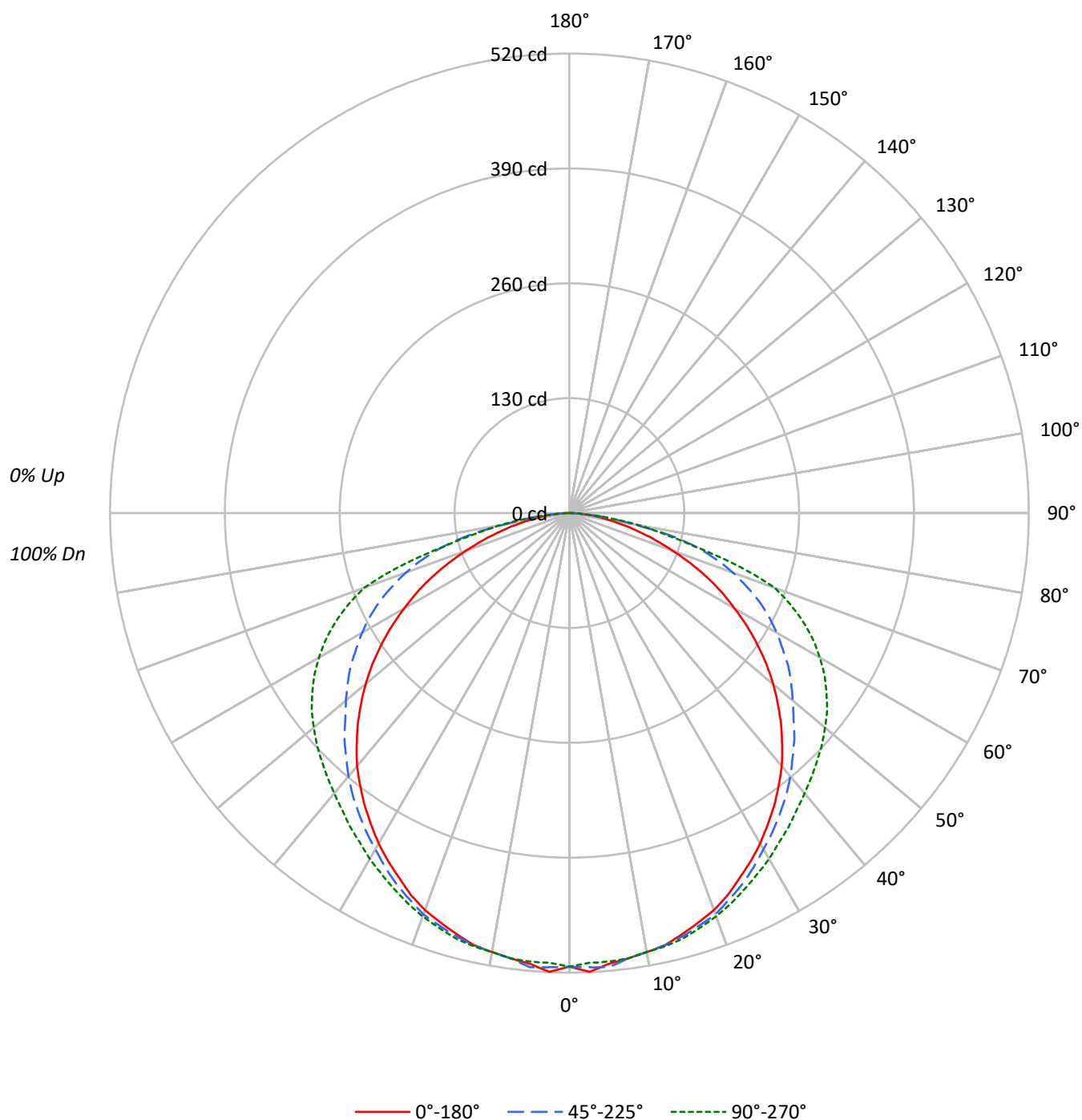
Input Watts (W): 21.204
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P260352

CATALOG NUMBER: 22CZ-LD5-29-SQP-UNV-L92765-W2A1-U-4500K

Luminous Intensity Polar Plot



TEST NUMBER: P260352

CATALOG NUMBER: 22CZ-LD5-29-SQP-UNV-L92765-W2A1-U-4500K

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	50	30	10	
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83			
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68			
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58	56			
4	81	68	59	52	79	67	58	52	64	57	51	62	56	50	60	54	50	47			
5	74	61	52	45	72	60	51	44	58	50	44	56	49	43	54	48	43	41			
6	68	55	45	39	66	54	45	39	52	44	38	50	43	38	48	42	37	35			
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31			
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	28			
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25			
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24	22			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1381	1381	1381
5°	1383	1393	1376
10°	1379	1379	1379
15°	1374	1381	1388
20°	1369	1384	1391
25°	1353	1375	1394
30°	1341	1365	1404
35°	1328	1365	1422
40°	1314	1366	1455
45°	1289	1371	1509
50°	1261	1382	1581
55°	1219	1419	1666
60°	1162	1459	1763
65°	1095	1510	1862
70°	977	1550	1945
75°	848	1552	1540
80°	719	1147	1244
85°	621	775	698



TEST NUMBER: P260352

CATALOG NUMBER: 22CZ-LD5-29-SQP-UNV-L92765-W2A1-U-4500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.7	3.0
10°-20°	140.0	8.7
20°-30°	213.3	13.2
30°-40°	261.0	16.1
40°-50°	280.8	17.4
50°-60°	272.0	16.8
60°-70°	230.4	14.3
70°-80°	139.3	8.6
80°-90°	30.6	1.9
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°	402.0	24.9
0°-40°	662.9	41.0
0°-60°	1215.7	75.2
0°-90°	1616.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1616.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	513	513	513	513	513	
5°	512	512	516	513	510	49
15°	493	494	496	497	498	139
25°	456	458	463	467	469	210
35°	404	407	415	427	433	253
45°	339	345	360	383	397	261
55°	260	271	302	338	355	232
65°	172	191	237	275	292	169
75°	82	110	149	152	148	88
85°	20	24	25	24	23	23
90°	0	0	0	0	0	



TEST NUMBER: P260352

CATALOG NUMBER: 22CZ-LD5-29-SQP-UNV-L92765-W2A1-U-4500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	513.3	513.3	513.3	513.3	513.3
2.5°	519.6	518.3	514.5	512.0	509.5
5°	512.0	512.0	515.8	513.3	509.5
7.5°	508.3	508.3	508.3	514.5	508.3
10°	504.5	505.8	504.5	509.5	504.5
12.5°	500.7	500.7	500.7	502.0	502.0
15°	493.2	494.5	495.7	497.0	498.2
17.5°	485.7	486.9	489.4	490.7	492.0
20°	478.1	479.4	483.2	483.2	485.7
22.5°	468.1	468.1	473.1	474.4	478.1
25°	455.6	458.1	463.1	466.9	469.4
27.5°	444.3	446.8	451.8	456.8	460.6
30°	431.7	434.2	439.2	446.8	451.8
32.5°	417.9	420.4	427.9	436.7	441.8
35°	404.1	406.6	415.4	426.7	433.0
37.5°	389.0	392.8	402.8	415.4	422.9
40°	374.0	377.7	389.0	402.8	414.1
42.5°	356.4	361.4	374.0	392.8	405.4
45°	338.8	345.1	360.2	382.8	396.6
47.5°	320.0	326.3	343.9	372.7	387.8
50°	301.2	308.7	330.1	361.4	377.7
52.5°	281.1	288.6	316.3	350.1	367.7
55°	259.8	271.1	302.4	337.6	355.2
57.5°	238.4	251.0	286.1	323.8	342.6
60°	215.9	230.9	271.1	308.7	327.5
62.5°	194.5	210.8	254.8	292.4	311.2
65°	171.9	190.8	237.2	274.8	292.4
67.5°	148.1	171.9	217.1	253.5	271.1
70°	124.2	151.9	197.0	230.9	247.2
72.5°	102.9	131.8	174.4	203.3	203.3
75°	81.6	110.4	149.3	151.9	148.1
77.5°	62.7	90.4	116.7	106.7	109.2
80°	46.4	69.0	74.0	77.8	80.3
82.5°	31.4	46.4	47.7	50.2	50.2
85°	20.1	23.8	25.1	23.8	22.6
87.5°	8.8	10.0	7.5	5.0	3.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)