

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: P230847

Luminaire Tested: **22CZ-LD5-24-RDP-UNV-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230847
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25714)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-24-RDP-UNV-L950-CD1-U
Description: CRUZE 2x2 LED TROFFER
WITH RDP LENS
Light Source: (84) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1561.0 lumens
Efficiency: N/A
Efficacy: 79.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

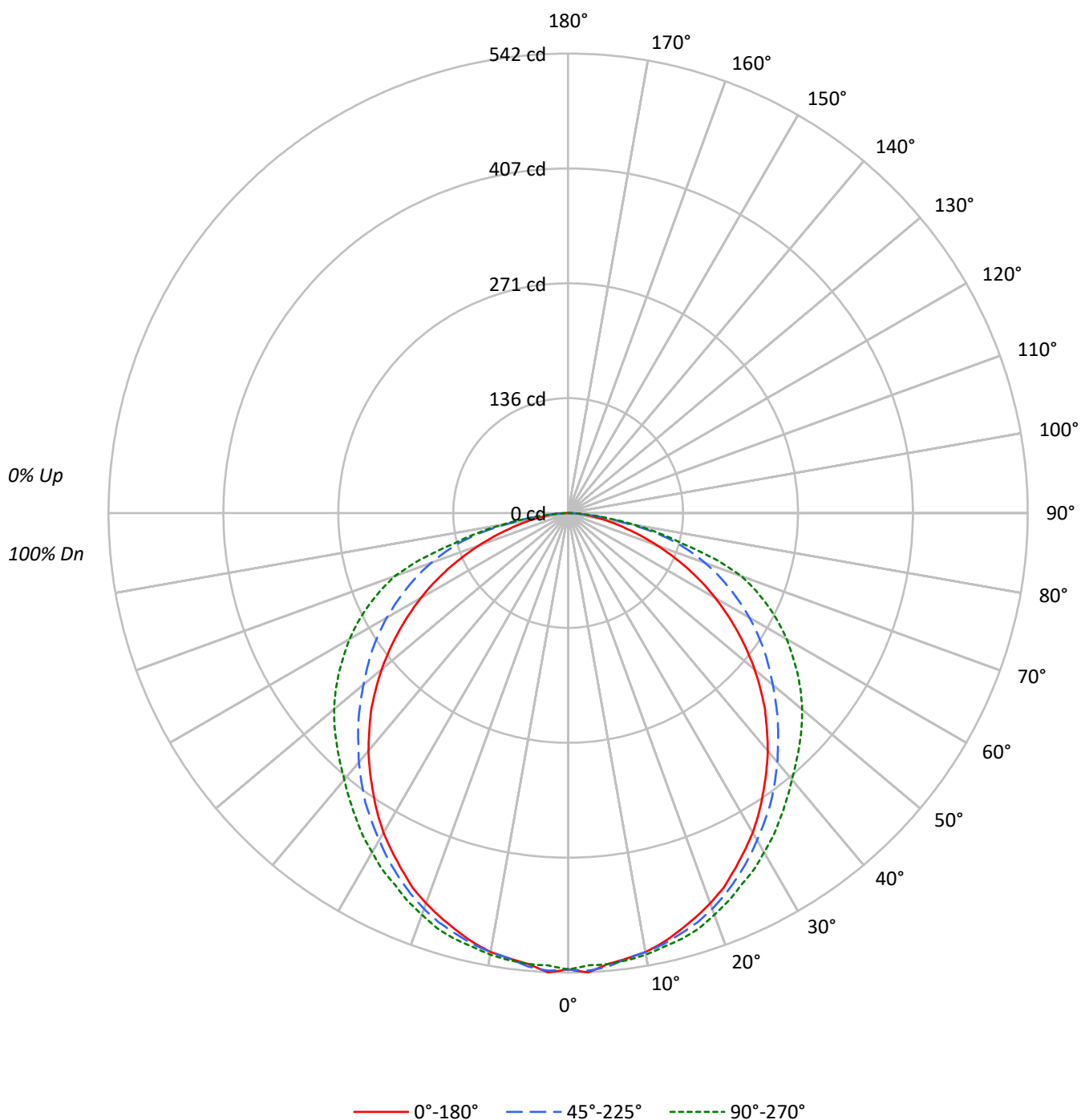
Input Watts (W): 19.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P230847

CATALOG NUMBER: 22CZ-LD5-24-RDP-UNV-L950-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P230847

CATALOG NUMBER: 22CZ-LD5-24-RDP-UNV-L950-CD1-U

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	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	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83		
2	98	90	83	77	96	88	81	76	84	79	74	81	77	73	78	74	71	69		
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	57		
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49		
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42		
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37		
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32		
8	60	46	37	31	58	45	37	31	44	37	31	43	36	31	42	35	31	29		
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26		
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	30	25	23		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1448	1448	1448
5°	1443	1451	1443
10°	1437	1437	1445
15°	1419	1431	1448
20°	1403	1423	1444
25°	1378	1405	1436
30°	1353	1385	1436
35°	1318	1369	1437
40°	1287	1348	1442
45°	1249	1332	1469
50°	1202	1318	1508
55°	1144	1323	1550
60°	1080	1329	1601
65°	996	1337	1657
70°	883	1352	1708
75°	749	1349	1455
80°	621	1085	1212
85°	540	732	698



TEST NUMBER: P230847

CATALOG NUMBER: 22CZ-LD5-24-RDP-UNV-L950-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.8	3.3
10°-20°	145.0	9.3
20°-30°	218.2	14.0
30°-40°	261.5	16.8
40°-50°	272.7	17.5
50°-60°	253.9	16.3
60°-70°	206.1	13.2
70°-80°	124.2	8.0
80°-90°	28.5	1.8
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°	414.1	26.5
0°-40°	675.6	43.3
0°-60°	1202.2	77.0
0°-90°	1561.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1561.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	538	538	538	538	538	
5°	534	534	537	538	534	51
15°	509	511	514	517	520	144
25°	464	467	473	480	484	214
35°	401	406	417	429	437	251
45°	328	334	350	372	386	253
55°	244	254	282	313	330	218
65°	156	173	210	243	260	155
75°	72	96	130	138	140	78
85°	18	22	24	23	23	20
90°	0	0	0	0	0	



TEST NUMBER: P230847

CATALOG NUMBER: 22CZ-LD5-24-RDP-UNV-L950-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	538.2	538.2	538.2	538.2	538.2
2.5°	542.3	541.3	540.2	537.1	534.1
5°	534.1	534.1	537.1	538.2	534.1
7.5°	529.9	529.9	529.9	534.1	532.0
10°	525.8	525.8	525.8	528.9	528.9
12.5°	518.6	519.7	520.7	521.7	523.8
15°	509.4	511.4	513.5	516.6	519.7
17.5°	500.1	502.2	506.3	509.4	513.5
20°	489.8	491.9	497.0	500.1	504.2
22.5°	478.5	479.5	485.7	489.8	495.0
25°	464.1	467.2	473.3	479.5	483.6
27.5°	449.7	452.8	460.0	468.2	474.4
30°	435.3	438.4	445.6	455.9	462.0
32.5°	418.8	422.9	431.2	443.5	450.7
35°	401.3	406.5	416.8	429.1	437.3
37.5°	383.8	389.0	400.3	415.7	424.0
40°	366.3	371.5	383.8	400.3	410.6
42.5°	346.8	353.0	366.3	385.9	398.2
45°	328.3	334.4	349.9	372.5	385.9
47.5°	307.7	314.9	332.4	358.1	373.5
50°	287.1	295.3	314.9	343.7	360.2
52.5°	265.5	274.7	298.4	328.3	345.7
55°	243.9	254.2	281.9	312.8	330.3
57.5°	222.3	233.6	264.5	296.4	313.8
60°	200.7	213.0	247.0	279.9	297.4
62.5°	179.0	192.4	228.4	261.4	279.9
65°	156.4	172.9	209.9	242.8	260.3
67.5°	133.8	153.3	191.4	223.3	239.8
70°	112.2	133.8	171.8	201.7	217.1
72.5°	91.6	114.2	151.3	177.0	183.2
75°	72.0	95.7	129.7	137.9	139.9
77.5°	55.6	77.2	102.9	105.0	110.1
80°	40.1	58.7	70.0	76.1	78.2
82.5°	27.8	40.1	46.3	47.3	48.4
85°	17.5	21.6	23.7	22.6	22.6
87.5°	9.3	8.2	7.2	5.1	4.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)