

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: P230871

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230871
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-LD5-24SE-RDP-UNV-L950-CD1-U
Description: CRUZE 2x2 LED TROFFER
WITH RDP LENS
Light Source: (56) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1559.0 lumens
Efficiency: N/A
Efficacy: 73.9 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

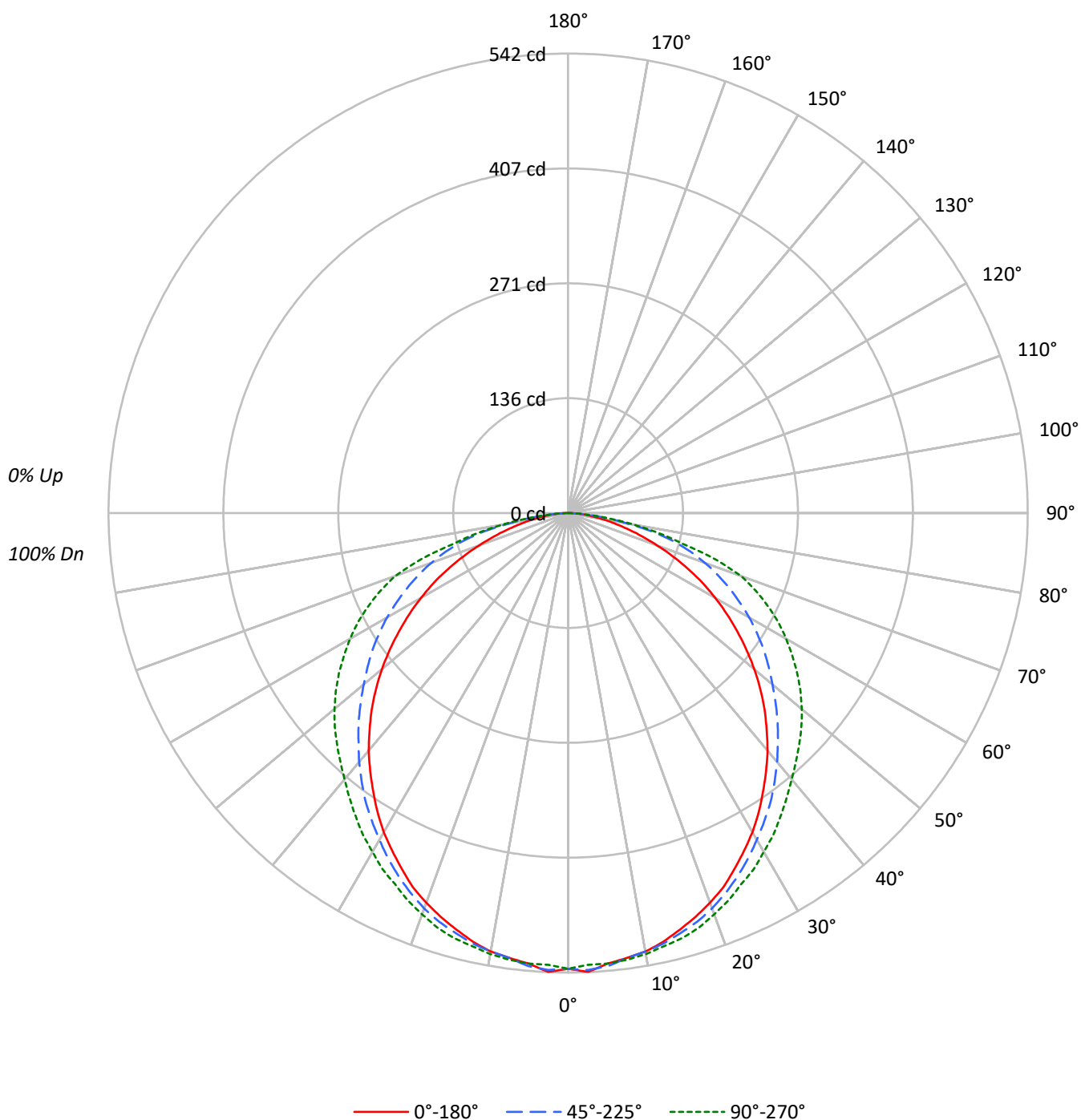
Input Watts (W): 21.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1446	1446	1446
5°	1441	1449	1441
10°	1435	1435	1443
15°	1417	1429	1446
20°	1401	1422	1442
25°	1376	1404	1434
30°	1351	1383	1434
35°	1317	1367	1435
40°	1285	1346	1441
45°	1247	1330	1467
50°	1200	1317	1506
55°	1143	1321	1548
60°	1079	1327	1598
65°	995	1335	1656
70°	881	1350	1706
75°	748	1346	1454
80°	621	1083	1210
85°	540	729	698



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.8	3.3
10°-20°	144.8	9.3
20°-30°	217.9	14.0
30°-40°	261.1	16.8
40°-50°	272.3	17.5
50°-60°	253.5	16.3
60°-70°	205.9	13.2
70°-80°	124.1	8.0
80°-90°	28.4	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°	413.6	26.5
0°-40°	674.7	43.3
0°-60°	1200.6	77.0
0°-90°	1559.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1559.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	538	538	538	538	538	
5°	533	533	536	538	533	51
15°	509	511	513	516	519	144
25°	464	467	473	479	483	214
35°	401	406	416	428	437	251
45°	328	334	349	372	385	252
55°	244	254	282	312	330	218
65°	156	173	210	242	260	154
75°	72	96	130	138	140	78
85°	18	22	24	23	23	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	537.5	537.5	537.5	537.5	537.5
2.5°	541.6	540.6	539.5	536.5	533.4
5°	533.4	533.4	536.5	537.5	533.4
7.5°	529.3	529.3	529.3	533.4	531.3
10°	525.2	525.2	525.2	528.2	528.2
12.5°	518.0	519.0	520.0	521.0	523.1
15°	508.7	510.8	512.8	515.9	519.0
17.5°	499.5	501.5	505.6	508.7	512.8
20°	489.2	491.2	496.4	499.5	503.6
22.5°	477.9	478.9	485.1	489.2	494.3
25°	463.5	466.6	472.7	478.9	483.0
27.5°	449.1	452.2	459.4	467.6	473.8
30°	434.7	437.8	445.0	455.3	461.4
32.5°	418.3	422.4	430.6	442.9	450.1
35°	400.8	405.9	416.2	428.5	436.8
37.5°	383.3	388.5	399.8	415.2	423.4
40°	365.9	371.0	383.3	399.8	410.1
42.5°	346.3	352.5	365.9	385.4	397.7
45°	327.8	334.0	349.4	372.0	385.4
47.5°	307.3	314.5	331.9	357.6	373.1
50°	286.7	294.9	314.5	343.3	359.7
52.5°	265.1	274.4	298.0	327.8	345.3
55°	243.6	253.8	281.6	312.4	329.9
57.5°	222.0	233.3	264.1	296.0	313.4
60°	200.4	212.7	246.6	279.5	297.0
62.5°	178.8	192.2	228.1	261.0	279.5
65°	156.2	172.7	209.6	242.5	260.0
67.5°	133.6	153.1	191.2	223.0	239.5
70°	112.0	133.6	171.6	201.4	216.8
72.5°	91.5	114.1	151.1	176.8	182.9
75°	71.9	95.6	129.5	137.7	139.8
77.5°	55.5	77.1	102.8	104.8	110.0
80°	40.1	58.6	69.9	76.0	78.1
82.5°	27.7	40.1	46.2	47.3	48.3
85°	17.5	21.6	23.6	22.6	22.6
87.5°	9.2	8.2	7.2	5.1	4.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)