

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: P230875

Luminaire Tested: **22CZ-LD5-32SE-RDP-UNV-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230875
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-LD5-32SE-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: 2025.0 lumens
Efficiency: N/A
Efficacy: 66.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

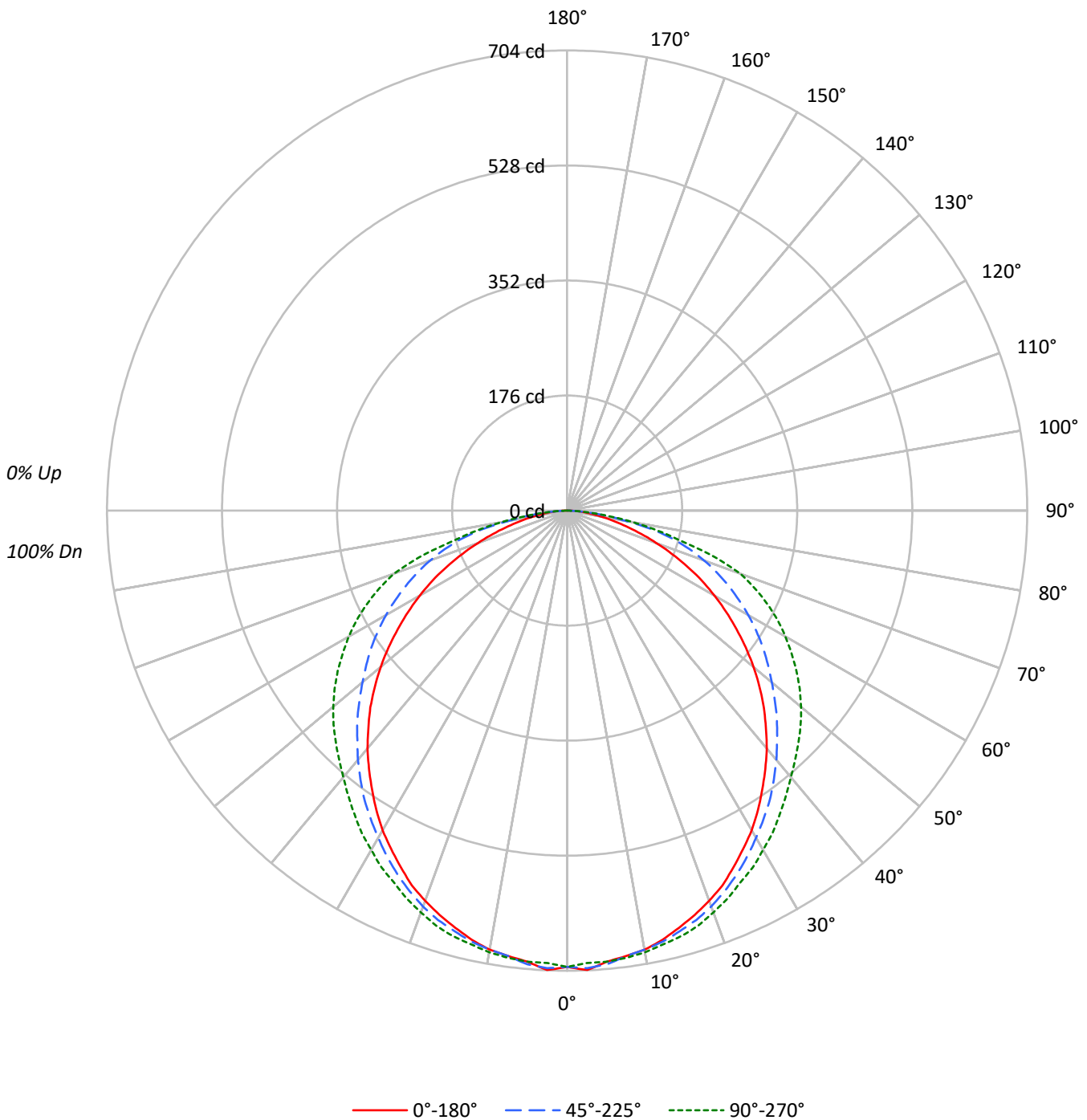
Input Watts (W): 30.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
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°	1879	1879	1879
5°	1871	1882	1871
10°	1864	1864	1875
15°	1841	1856	1878
20°	1820	1846	1873
25°	1787	1823	1863
30°	1755	1796	1863
35°	1710	1776	1864
40°	1669	1749	1871
45°	1620	1727	1905
50°	1559	1710	1956
55°	1484	1716	2010
60°	1401	1724	2076
65°	1292	1734	2150
70°	1145	1754	2216
75°	971	1749	1887
80°	807	1407	1573
85°	701	948	908



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.0	3.3
10°-20°	188.1	9.3
20°-30°	283.1	14.0
30°-40°	339.2	16.8
40°-50°	353.8	17.5
50°-60°	329.3	16.3
60°-70°	267.4	13.2
70°-80°	161.2	8.0
80°-90°	37.0	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°	537.2	26.5
0°-40°	876.4	43.3
0°-60°	1559.5	77.0
0°-90°	2025.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2025.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	698	698	698	698	698	
5°	693	693	697	698	693	66
15°	661	663	666	670	674	186
25°	602	606	614	622	627	277
35°	521	527	541	557	567	326
45°	426	434	454	483	501	328
55°	316	330	366	406	428	283
65°	203	224	272	315	338	201
75°	93	124	168	179	182	101
85°	23	28	31	29	29	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	698.1	698.1	698.1	698.1	698.1
2.5°	703.5	702.1	700.8	696.8	692.8
5°	692.8	692.8	696.8	698.1	692.8
7.5°	687.5	687.5	687.5	692.8	690.1
10°	682.1	682.1	682.1	686.1	686.1
12.5°	672.8	674.1	675.5	676.8	679.5
15°	660.8	663.4	666.1	670.1	674.1
17.5°	648.8	651.4	656.8	660.8	666.1
20°	635.4	638.1	644.7	648.8	654.1
22.5°	620.7	622.1	630.1	635.4	642.1
25°	602.0	606.0	614.0	622.1	627.4
27.5°	583.3	587.3	596.7	607.4	615.4
30°	564.7	568.7	578.0	591.4	599.4
32.5°	543.3	548.6	559.3	575.3	584.7
35°	520.6	527.3	540.6	556.6	567.3
37.5°	497.9	504.6	519.3	539.3	550.0
40°	475.2	481.9	497.9	519.3	532.6
42.5°	449.9	457.9	475.2	500.6	516.6
45°	425.8	433.8	453.9	483.2	500.6
47.5°	399.1	408.5	431.2	464.5	484.6
50°	372.4	383.1	408.5	445.9	467.2
52.5°	344.4	356.4	387.1	425.8	448.5
55°	316.4	329.7	365.8	405.8	428.5
57.5°	288.3	303.0	343.1	384.4	407.1
60°	260.3	276.3	320.4	363.1	385.8
62.5°	232.3	249.6	296.3	339.1	363.1
65°	202.9	224.3	272.3	315.0	337.7
67.5°	173.5	198.9	248.3	289.7	311.0
70°	145.5	173.5	222.9	261.6	281.7
72.5°	118.8	148.2	196.2	229.6	237.6
75°	93.4	124.1	168.2	178.9	181.5
77.5°	72.1	100.1	133.5	136.2	142.8
80°	52.1	76.1	90.8	98.8	101.5
82.5°	36.0	52.1	60.1	61.4	62.7
85°	22.7	28.0	30.7	29.4	29.4
87.5°	12.0	10.7	9.3	6.7	5.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)