

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: P230858

Luminaire Tested: **22CZ-LD5-39-RDP-UNV-L940-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230858
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-LD5-39-RDP-UNV-L940-CD1-U
Description: CRUZE 2x2 LED TROFFER
WITH RDP LENS
Light Source: (84) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2284.0 lumens
Efficiency: N/A
Efficacy: 62.7 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

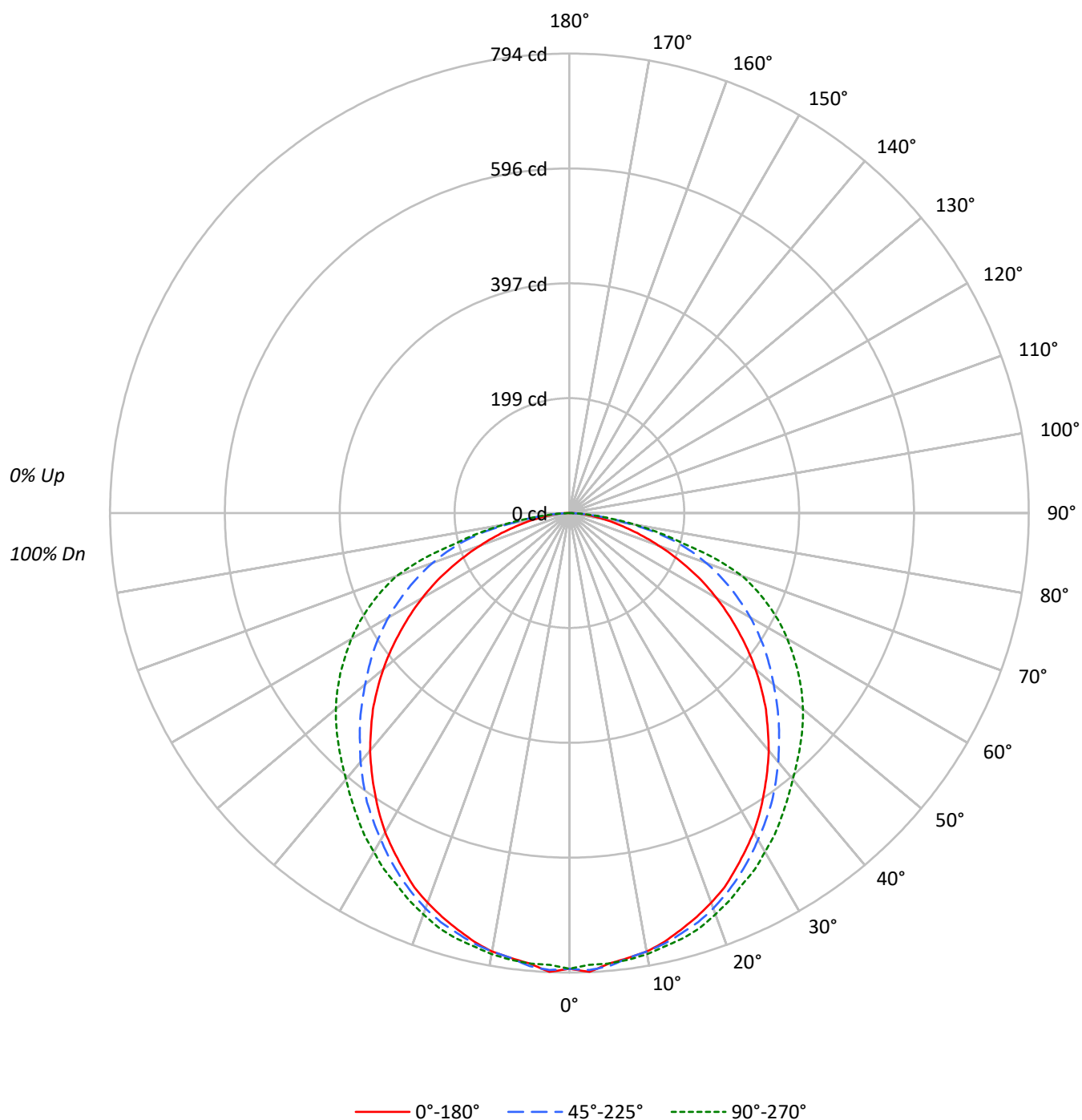
Input Watts (W): 36.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					30					10					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	108	104	99	95		106	101	97	94		97	94	91		93	90	88		89	87	85
2	98	90	83	77		96	88	81	76		84	79	74		81	77	73		78	74	71
3	89	79	70	64		87	77	69	63		74	67	62		71	66	61		69	64	60
4	82	69	60	54		79	68	60	53		66	58	52		63	57	52		61	56	51
5	75	62	53	46		73	61	52	46		59	51	45		57	50	45		55	49	44
6	69	56	47	40		67	55	46	40		53	45	40		51	44	39		50	44	39
7	64	50	42	35		62	50	41	35		48	40	35		47	40	35		45	39	34
8	60	46	37	31		58	45	37	31		44	37	31		43	36	31		42	35	31
9	56	42	34	28		54	42	34	28		40	33	28		39	33	28		38	32	28
10	52	39	31	26		51	38	31	26		37	30	25		36	30	25		36	30	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2119	2119	2119
5°	2111	2123	2111
10°	2102	2102	2115
15°	2076	2093	2118
20°	2052	2082	2113
25°	2016	2056	2101
30°	1979	2026	2101
35°	1929	2003	2102
40°	1883	1973	2110
45°	1828	1948	2149
50°	1759	1929	2206
55°	1674	1935	2267
60°	1580	1945	2342
65°	1457	1955	2425
70°	1291	1978	2500
75°	1096	1972	2129
80°	910	1587	1773
85°	790	1068	1022



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.4	3.3
10°-20°	212.2	9.3
20°-30°	319.3	14.0
30°-40°	382.6	16.8
40°-50°	399.0	17.5
50°-60°	371.5	16.3
60°-70°	301.6	13.2
70°-80°	181.8	8.0
80°-90°	41.7	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°	605.9	26.5
0°-40°	988.5	43.3
0°-60°	1758.9	77.0
0°-90°	2284.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2284.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	787	787	787	787	787	
5°	781	781	786	787	781	74
15°	745	748	751	756	760	210
25°	679	684	693	702	708	313
35°	587	595	610	628	640	368
45°	480	489	512	545	565	370
55°	357	372	412	458	483	319
65°	229	253	307	355	381	226
75°	105	140	190	202	205	114
85°	26	32	35	33	33	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	787.4	787.4	787.4	787.4	787.4
2.5°	793.5	792.0	790.4	785.9	781.4
5°	781.4	781.4	785.9	787.4	781.4
7.5°	775.4	775.4	775.4	781.4	778.4
10°	769.4	769.4	769.4	773.9	773.9
12.5°	758.8	760.3	761.8	763.3	766.4
15°	745.3	748.3	751.3	755.8	760.3
17.5°	731.7	734.7	740.8	745.3	751.3
20°	716.7	719.7	727.2	731.7	737.8
22.5°	700.1	701.6	710.7	716.7	724.2
25°	679.0	683.5	692.6	701.6	707.6
27.5°	658.0	662.5	673.0	685.1	694.1
30°	636.9	641.4	651.9	667.0	676.0
32.5°	612.8	618.8	630.9	648.9	659.5
35°	587.2	594.7	609.8	627.8	639.9
37.5°	561.6	569.1	585.7	608.3	620.3
40°	536.0	543.5	561.6	585.7	600.7
42.5°	507.4	516.4	536.0	564.6	582.7
45°	480.3	489.3	511.9	545.0	564.6
47.5°	450.2	460.7	486.3	524.0	546.5
50°	420.1	432.1	460.7	502.9	527.0
52.5°	388.4	402.0	436.6	480.3	505.9
55°	356.8	371.9	412.5	457.7	483.3
57.5°	325.2	341.8	386.9	433.6	459.2
60°	293.6	311.7	361.3	409.5	435.1
62.5°	262.0	281.6	334.2	382.4	409.5
65°	228.9	252.9	307.1	355.3	380.9
67.5°	195.7	224.3	280.0	326.7	350.8
70°	164.1	195.7	251.4	295.1	317.7
72.5°	134.0	167.1	221.3	259.0	268.0
75°	105.4	140.0	189.7	201.8	204.8
77.5°	81.3	112.9	150.6	153.6	161.1
80°	58.7	85.8	102.4	111.4	114.4
82.5°	40.7	58.7	67.8	69.3	70.8
85°	25.6	31.6	34.6	33.1	33.1
87.5°	13.6	12.0	10.5	7.5	6.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)