

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: P230859

Luminaire Tested: **22CZ-LD5-39-RDP-UNV-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230859
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-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: 2485.0 lumens
Efficiency: N/A
Efficacy: 68.3 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

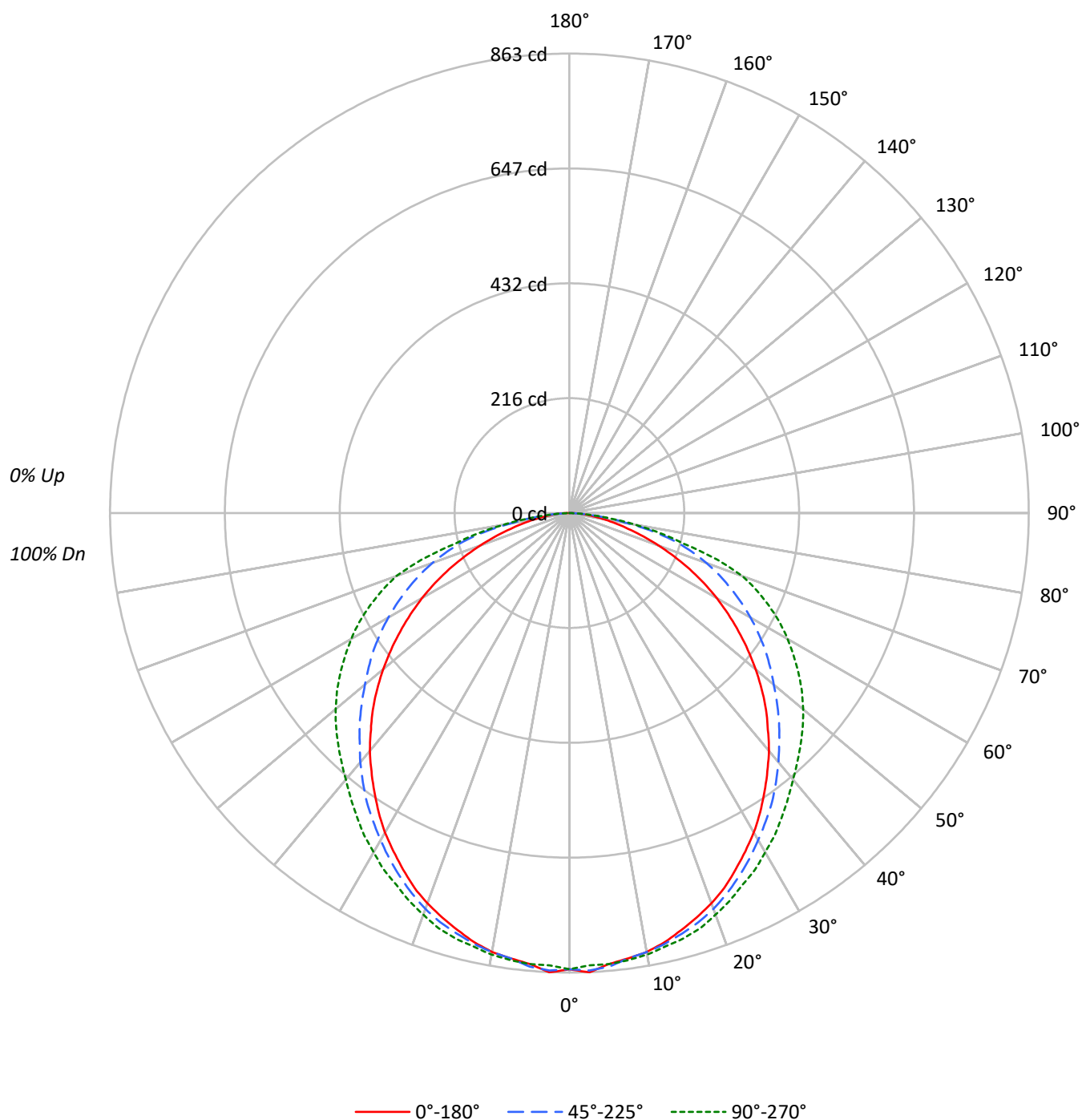
Input Watts (W): 36.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					50					30					10
RW	70	50	30	10	70	50	30	10		50	30	10			50	30	10			50
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	108	104	99	95	106	101	97	94		97	94	91			93	90	88			89
2	98	90	83	77	96	88	81	76		84	79	74			81	77	73			78
3	89	79	70	64	87	77	69	63		74	67	62			71	66	61			69
4	82	69	60	54	79	68	60	53		66	58	52			63	57	52			61
5	75	62	53	46	73	61	52	46		59	51	45			57	50	45			55
6	69	56	47	40	67	55	46	40		53	45	40			51	44	39			50
7	64	50	42	35	62	50	41	35		48	40	35			47	40	35			45
8	60	46	37	31	58	45	37	31		44	37	31			43	36	31			42
9	56	42	34	28	54	42	34	28		40	33	28			39	33	28			38
10	52	39	31	26	51	38	31	26		37	30	25			36	30	25			36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2305	2305	2305
5°	2297	2310	2297
10°	2287	2287	2301
15°	2259	2277	2305
20°	2233	2266	2299
25°	2194	2237	2286
30°	2153	2204	2285
35°	2099	2179	2287
40°	2049	2146	2296
45°	1989	2120	2338
50°	1913	2099	2400
55°	1821	2106	2467
60°	1719	2116	2548
65°	1585	2128	2639
70°	1405	2153	2719
75°	1193	2146	2316
80°	990	1726	1929
85°	858	1164	1112



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.9	3.3
10°-20°	230.9	9.3
20°-30°	347.4	14.0
30°-40°	416.3	16.8
40°-50°	434.1	17.5
50°-60°	404.2	16.3
60°-70°	328.2	13.2
70°-80°	197.8	8.0
80°-90°	45.3	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°	659.2	26.5
0°-40°	1075.5	43.3
0°-60°	1913.7	77.0
0°-90°	2485.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2485.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	857	857	857	857	857	
5°	850	850	855	857	850	81
15°	811	814	817	822	827	229
25°	739	744	754	763	770	340
35°	639	647	663	683	696	400
45°	523	532	557	593	614	402
55°	388	405	449	498	526	347
65°	249	275	334	387	414	246
75°	115	152	206	220	223	124
85°	28	34	38	36	36	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	856.7	856.7	856.7	856.7	856.7
2.5°	863.3	861.6	860.0	855.1	850.2
5°	850.2	850.2	855.1	856.7	850.2
7.5°	843.6	843.6	843.6	850.2	846.9
10°	837.1	837.1	837.1	842.0	842.0
12.5°	825.6	827.2	828.9	830.5	833.8
15°	810.9	814.1	817.4	822.3	827.2
17.5°	796.1	799.4	806.0	810.9	817.4
20°	779.7	783.0	791.2	796.1	802.7
22.5°	761.7	763.4	773.2	779.7	787.9
25°	738.8	743.7	753.5	763.4	769.9
27.5°	715.9	720.8	732.2	745.3	755.2
30°	692.9	697.8	709.3	725.7	735.5
32.5°	666.7	673.3	686.4	706.0	717.5
35°	638.9	647.1	663.4	683.1	696.2
37.5°	611.0	619.2	637.2	661.8	674.9
40°	583.2	591.4	611.0	637.2	653.6
42.5°	552.0	561.9	583.2	614.3	634.0
45°	522.6	532.4	557.0	593.0	614.3
47.5°	489.8	501.3	529.1	570.1	594.6
50°	457.0	470.1	501.3	547.1	573.3
52.5°	422.6	437.4	475.1	522.6	550.4
55°	388.2	404.6	448.8	498.0	525.8
57.5°	353.8	371.9	421.0	471.8	499.6
60°	319.4	339.1	393.1	445.6	473.4
62.5°	285.0	306.3	363.7	416.1	445.6
65°	249.0	275.2	334.2	386.6	414.4
67.5°	213.0	244.1	304.7	355.5	381.7
70°	178.6	213.0	273.6	321.1	345.6
72.5°	145.8	181.8	240.8	281.8	291.6
75°	114.7	152.3	206.4	219.5	222.8
77.5°	88.5	122.9	163.8	167.1	175.3
80°	63.9	93.4	111.4	121.2	124.5
82.5°	44.2	63.9	73.7	75.4	77.0
85°	27.8	34.4	37.7	36.0	36.0
87.5°	14.7	13.1	11.5	8.2	6.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)