

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: P230607

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230607
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25712)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-24SE-S-UNV-L950-CD1-U
Description: CRUZE 2x2 LED TROFFER
WITH SMOOTH LENS
Light Source: (56) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2415.0 lumens
Efficiency: N/A
Efficacy: 114.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

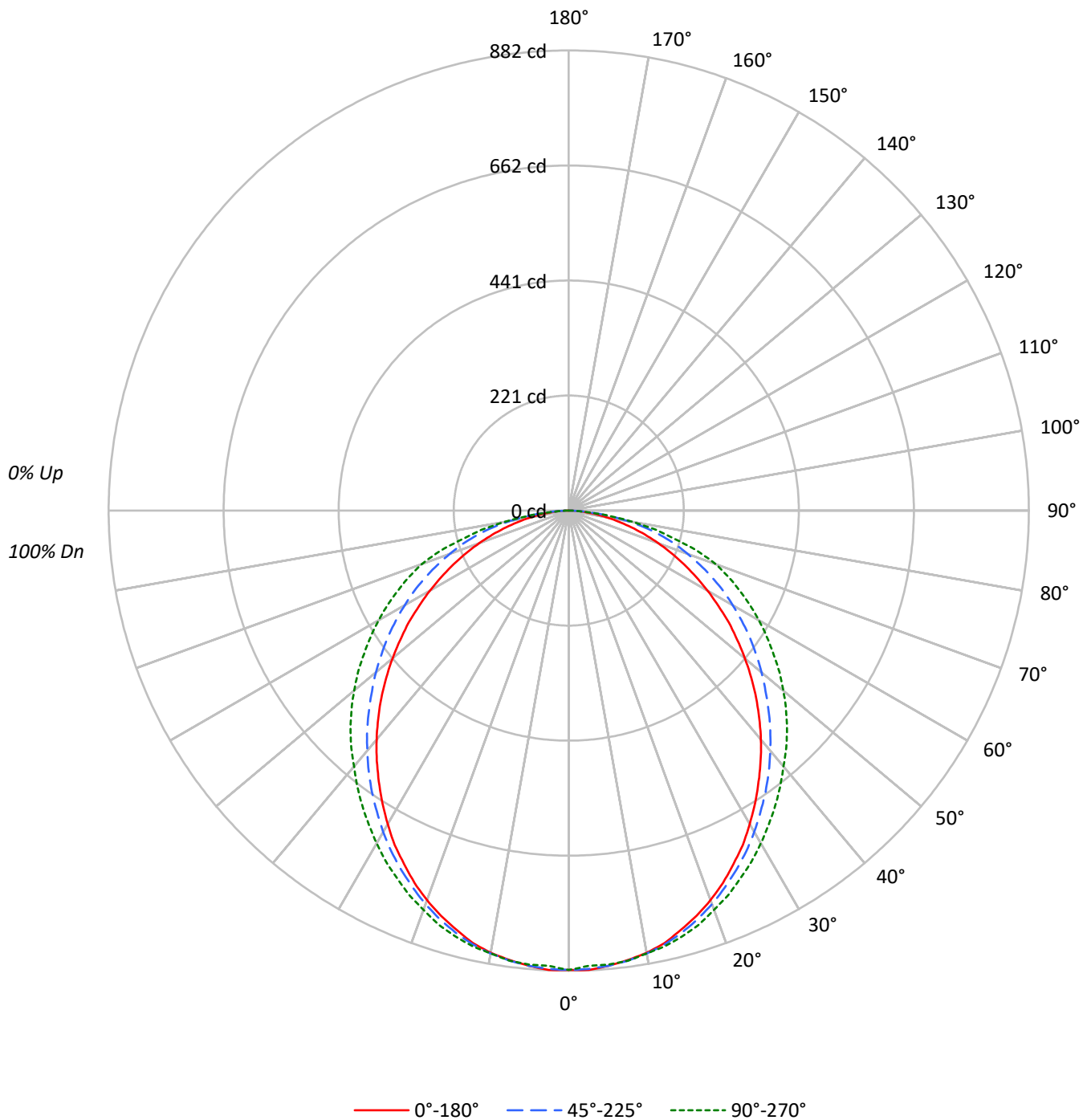
Input Watts (W): 21.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	109	104	99	95	106	101	97	94		97	94	91			93	91	88			90
2	99	90	83	77	96	88	82	77		85	79	75			81	77	73			78
3	90	79	71	64	87	78	70	64		75	68	63			72	66	62			69
4	82	70	61	54	80	69	61	54		66	59	53			64	58	53			62
5	76	63	54	47	74	62	53	47		59	52	46			57	51	46			56
6	70	56	47	41	68	56	47	41		54	46	40			52	45	40			50
7	65	51	42	36	63	50	42	36		49	41	36			47	41	36			46
8	60	47	38	32	59	46	38	32		45	37	32			43	37	32			42
9	56	43	35	29	55	42	34	29		41	34	29			40	34	29			39
10	53	40	32	26	52	39	32	26		38	31	26			37	31	26			36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2369	2369	2369
5°	2366	2366	2360
10°	2352	2355	2355
15°	2317	2333	2353
20°	2275	2299	2332
25°	2218	2256	2311
30°	2156	2210	2289
35°	2084	2161	2267
40°	2013	2111	2249
45°	1934	2062	2251
50°	1845	2020	2249
55°	1758	1986	2248
60°	1654	1954	2266
65°	1551	1927	2297
70°	1433	1907	2355
75°	1290	1893	2183
80°	1133	1762	1906
85°	932	1325	1183



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.1	3.4
10°-20°	236.2	9.8
20°-30°	350.8	14.5
30°-40°	412.9	17.1
40°-50°	421.0	17.4
50°-60°	379.7	15.7
60°-70°	299.0	12.4
70°-80°	184.5	7.6
80°-90°	47.9	2.0
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°	670.1	27.7
0°-40°	1083.0	44.8
0°-60°	1883.6	78.0
0°-90°	2415.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2415.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	880	880	880	880	880	
5°	876	877	876	875	874	83
15°	832	835	838	842	844	234
25°	747	752	760	772	778	344
35°	634	642	658	679	690	397
45°	508	516	542	574	592	392
55°	375	387	423	462	479	334
65°	244	261	303	341	361	241
75°	124	145	182	203	210	132
85°	30	38	43	41	38	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	880.4	880.4	880.4	880.4	880.4
2.5°	881.6	881.6	879.3	876.9	873.5
5°	875.8	876.9	875.8	874.6	873.5
7.5°	868.8	870.0	870.0	870.0	870.0
10°	860.7	861.9	861.9	861.9	861.9
12.5°	849.1	850.3	851.4	852.6	854.9
15°	831.7	835.2	837.5	842.1	844.5
17.5°	814.3	817.8	821.3	827.1	831.7
20°	794.6	796.9	802.7	809.7	814.3
22.5°	772.5	776.0	781.8	791.1	798.1
25°	747.0	751.7	759.8	772.5	778.3
27.5°	722.7	726.1	736.6	750.5	758.6
30°	693.7	698.3	711.1	728.5	736.6
32.5°	664.7	670.5	684.4	704.1	713.4
35°	634.5	641.5	657.7	678.6	690.2
37.5°	604.3	611.3	629.9	653.1	665.8
40°	573.0	580.0	600.9	626.4	640.3
42.5°	540.5	548.7	571.9	600.9	617.1
45°	508.1	516.2	541.7	574.2	591.6
47.5°	474.4	483.7	511.5	547.5	564.9
50°	440.8	451.2	482.5	519.7	537.1
52.5°	407.1	418.7	452.4	490.7	509.2
55°	374.7	387.4	423.4	461.7	479.1
57.5°	339.9	354.9	393.2	430.3	450.1
60°	307.4	323.6	363.1	400.2	421.1
62.5°	274.9	292.3	334.1	371.2	390.9
65°	243.6	261.0	302.7	341.0	360.7
67.5°	212.3	232.0	272.6	310.9	330.6
70°	182.1	203.0	242.4	279.6	299.3
72.5°	153.1	174.0	213.4	248.2	259.8
75°	124.1	145.0	182.1	203.0	210.0
77.5°	97.4	117.2	149.6	162.4	171.7
80°	73.1	90.5	113.7	121.8	123.0
82.5°	49.9	65.0	78.9	80.0	78.9
85°	30.2	38.3	42.9	40.6	38.3
87.5°	13.9	15.1	13.9	9.3	5.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)