

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: P230579

Luminaire Tested: **22CZ-LD5-20-S-UNV-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230579
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-LD5-20-S-UNV-L950-CD1-U
Description: CRUZE 2x2 LED TROFFER
WITH SMOOTH LENS
Light Source: (84) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2042.0 lumens
Efficiency: N/A
Efficacy: 124.5 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

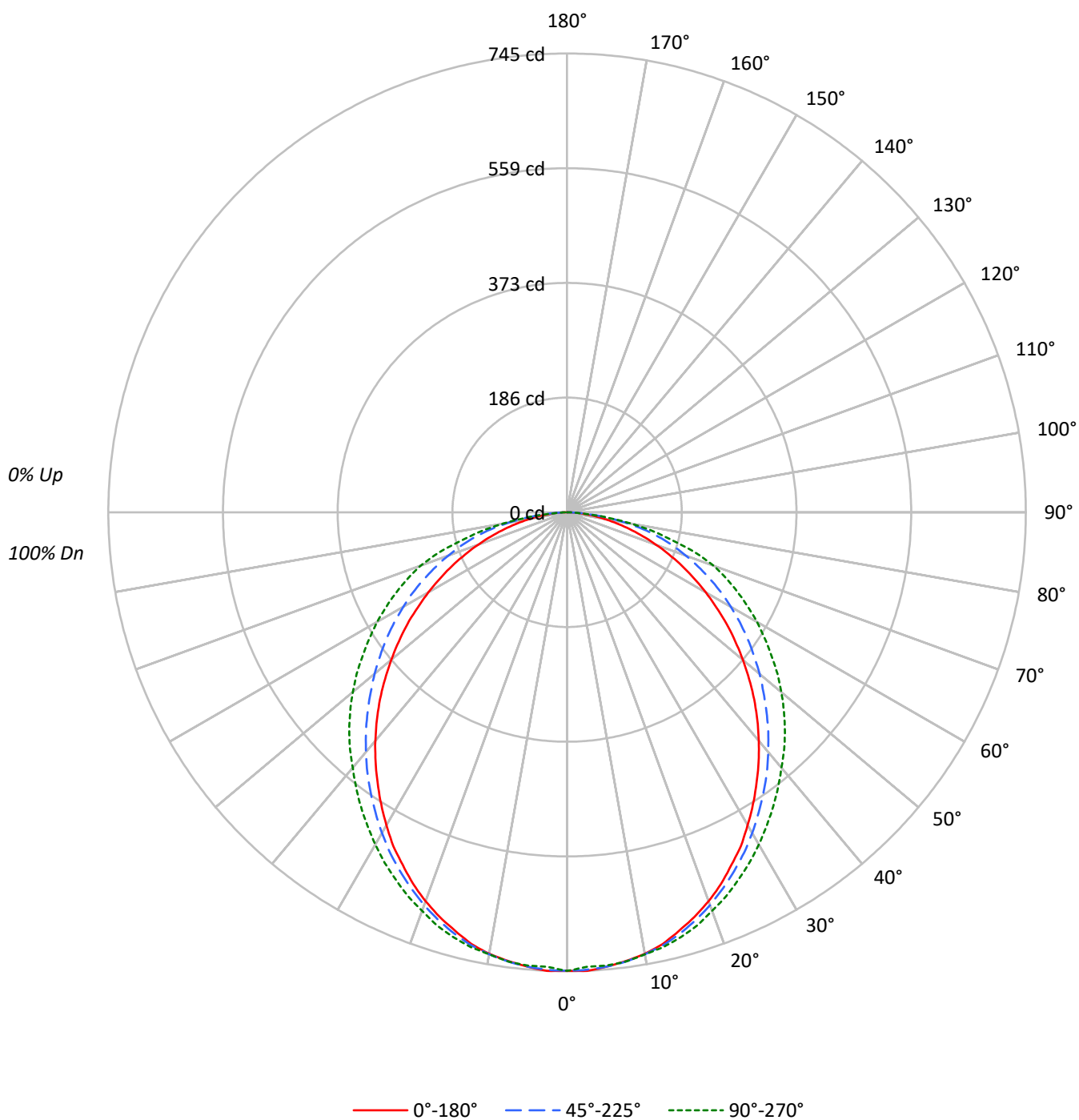
Input Watts (W): 16.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	109	104	99	95	106	101	97	94		97	94	91		93	91	88		90	87	85
2	99	90	83	77	96	88	82	77		85	79	75		81	77	73		78	75	71
3	90	79	71	64	87	78	70	64		75	68	63		72	66	62		69	64	60
4	82	70	61	54	80	69	61	54		66	59	53		64	58	53		62	56	52
5	76	63	54	47	74	62	53	47		59	52	46		57	51	46		56	50	45
6	70	56	47	41	68	56	47	41		54	46	40		52	45	40		50	44	40
7	65	51	42	36	63	50	42	36		49	41	36		47	41	36		46	40	35
8	60	47	38	32	59	46	38	32		45	37	32		43	37	32		42	36	32
9	56	43	35	29	55	42	34	29		41	34	29		40	34	29		39	33	29
10	53	40	32	26	52	39	32	26		38	31	26		37	31	26		36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2003	2003	2003
5°	2000	2000	1995
10°	1989	1991	1991
15°	1959	1973	1989
20°	1924	1944	1972
25°	1875	1907	1954
30°	1822	1868	1935
35°	1762	1827	1917
40°	1702	1785	1902
45°	1635	1743	1904
50°	1560	1708	1901
55°	1486	1680	1901
60°	1399	1652	1916
65°	1312	1630	1942
70°	1212	1613	1991
75°	1091	1601	1845
80°	958	1489	1612
85°	787	1121	1000



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.3	3.4
10°-20°	199.7	9.8
20°-30°	296.6	14.5
30°-40°	349.1	17.1
40°-50°	355.9	17.4
50°-60°	321.0	15.7
60°-70°	252.9	12.4
70°-80°	156.0	7.6
80°-90°	40.5	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°	566.6	27.7
0°-40°	915.7	44.8
0°-60°	1592.7	78.0
0°-90°	2042.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2042.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	744	744	744	744	744	
5°	740	742	740	740	738	70
15°	703	706	708	712	714	198
25°	632	636	642	653	658	291
35°	536	542	556	574	584	336
45°	430	436	458	486	500	331
55°	317	328	358	390	405	283
65°	206	221	256	288	305	204
75°	105	123	154	172	178	112
85°	26	32	36	34	32	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	744.4	744.4	744.4	744.4	744.4
2.5°	745.4	745.4	743.4	741.5	738.5
5°	740.5	741.5	740.5	739.5	738.5
7.5°	734.6	735.6	735.6	735.6	735.6
10°	727.8	728.7	728.7	728.7	728.7
12.5°	717.9	718.9	719.9	720.9	722.9
15°	703.2	706.2	708.1	712.1	714.0
17.5°	688.5	691.5	694.4	699.3	703.2
20°	671.9	673.8	678.7	684.6	688.5
22.5°	653.2	656.2	661.1	668.9	674.8
25°	631.6	635.6	642.4	653.2	658.1
27.5°	611.0	614.0	622.8	634.6	641.4
30°	586.5	590.4	601.2	615.9	622.8
32.5°	562.0	566.9	578.7	595.3	603.2
35°	536.5	542.4	556.1	573.8	583.6
37.5°	511.0	516.9	532.6	552.2	563.0
40°	484.5	490.4	508.1	529.6	541.4
42.5°	457.1	463.9	483.5	508.1	521.8
45°	429.6	436.5	458.0	485.5	500.2
47.5°	401.1	409.0	432.5	462.9	477.7
50°	372.7	381.5	408.0	439.4	454.1
52.5°	344.3	354.1	382.5	414.9	430.6
55°	316.8	327.6	358.0	390.4	405.1
57.5°	287.4	300.1	332.5	363.9	380.6
60°	259.9	273.6	307.0	338.4	356.0
62.5°	232.5	247.2	282.5	313.9	330.5
65°	206.0	220.7	256.0	288.4	305.0
67.5°	179.5	196.2	230.5	262.9	279.5
70°	154.0	171.6	205.0	236.4	253.0
72.5°	129.5	147.1	180.5	209.9	219.7
75°	104.9	122.6	154.0	171.6	177.5
77.5°	82.4	99.1	126.5	137.3	145.2
80°	61.8	76.5	96.1	103.0	104.0
82.5°	42.2	54.9	66.7	67.7	66.7
85°	25.5	32.4	36.3	34.3	32.4
87.5°	11.8	12.8	11.8	7.8	4.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)