

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: P230862

Luminaire Tested: **22CZ-LD5-44-RDP-UNV-L940-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230862
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-LD5-44-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: 2575.0 lumens
Efficiency: N/A
Efficacy: 61.6 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

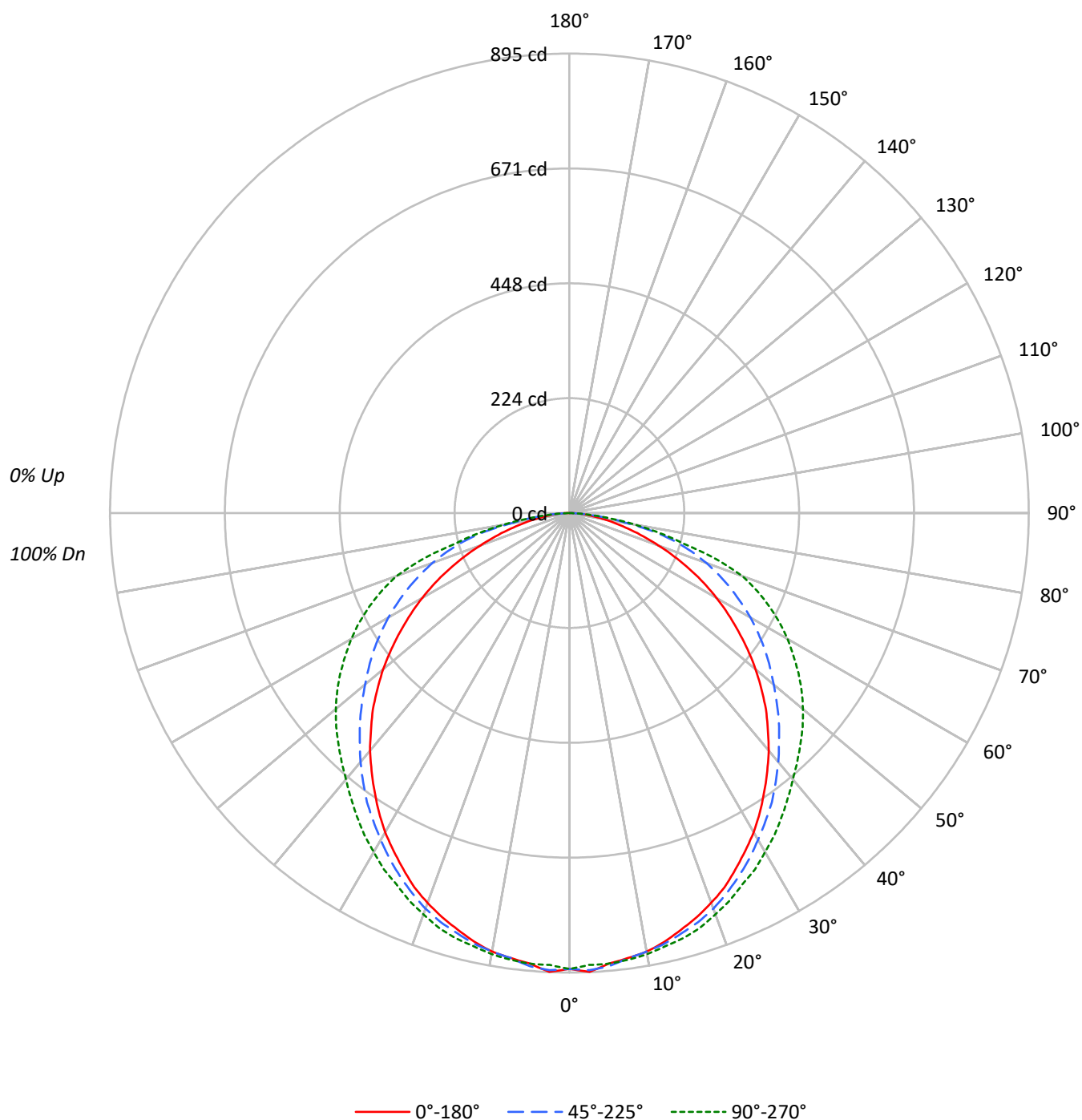
Input Watts (W): 41.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2389	2389	2389
5°	2380	2394	2380
10°	2370	2370	2384
15°	2341	2360	2388
20°	2314	2348	2382
25°	2273	2318	2369
30°	2231	2284	2368
35°	2175	2258	2370
40°	2123	2224	2379
45°	2061	2196	2422
50°	1983	2174	2487
55°	1887	2182	2556
60°	1781	2193	2640
65°	1643	2205	2735
70°	1456	2231	2818
75°	1235	2224	2401
80°	1026	1788	1999
85°	892	1204	1152



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.9	3.3
10°-20°	239.2	9.3
20°-30°	359.9	14.0
30°-40°	431.3	16.8
40°-50°	449.8	17.5
50°-60°	418.8	16.3
60°-70°	340.1	13.2
70°-80°	204.9	8.0
80°-90°	47.0	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°	683.1	26.5
0°-40°	1114.4	43.3
0°-60°	1983.0	77.0
0°-90°	2575.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2575.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	888	888	888	888	888	
5°	881	881	886	888	881	84
15°	840	844	847	852	857	237
25°	766	771	781	791	798	353
35°	662	670	688	708	721	414
45°	542	552	577	614	636	417
55°	402	419	465	516	545	360
65°	258	285	346	401	430	255
75°	119	158	214	228	231	128
85°	29	36	39	37	37	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	887.8	887.8	887.8	887.8	887.8
2.5°	894.6	892.9	891.2	886.1	881.0
5°	881.0	881.0	886.1	887.8	881.0
7.5°	874.2	874.2	874.2	881.0	877.6
10°	867.4	867.4	867.4	872.5	872.5
12.5°	855.5	857.2	858.9	860.6	864.0
15°	840.2	843.6	847.0	852.1	857.2
17.5°	825.0	828.4	835.1	840.2	847.0
20°	808.0	811.4	819.9	825.0	831.7
22.5°	789.3	791.0	801.2	808.0	816.5
25°	765.5	770.6	780.8	791.0	797.8
27.5°	741.8	746.9	758.8	772.3	782.5
30°	718.0	723.1	735.0	752.0	762.2
32.5°	690.9	697.6	711.2	731.6	743.5
35°	662.0	670.5	687.5	707.8	721.4
37.5°	633.1	641.6	660.3	685.8	699.3
40°	604.3	612.8	633.1	660.3	677.3
42.5°	572.0	582.2	604.3	636.5	656.9
45°	541.5	551.7	577.1	614.5	636.5
47.5°	507.5	519.4	548.3	590.7	616.2
50°	473.6	487.2	519.4	566.9	594.1
52.5°	437.9	453.2	492.3	541.5	570.3
55°	402.3	419.3	465.1	516.0	544.9
57.5°	366.6	385.3	436.2	488.9	517.7
60°	331.0	351.4	407.4	461.7	490.6
62.5°	295.4	317.4	376.8	431.2	461.7
65°	258.0	285.2	346.3	400.6	429.5
67.5°	220.7	252.9	315.7	368.3	395.5
70°	185.0	220.7	283.5	332.7	358.2
72.5°	151.1	188.4	249.5	292.0	302.1
75°	118.8	157.9	213.9	227.5	230.9
77.5°	91.7	127.3	169.7	173.1	181.6
80°	66.2	96.8	115.4	125.6	129.0
82.5°	45.8	66.2	76.4	78.1	79.8
85°	28.9	35.6	39.0	37.3	37.3
87.5°	15.3	13.6	11.9	8.5	6.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)