

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: P230861

Luminaire Tested: **22CZ-LD5-44-RDP-UNV-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230861
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-L935-CD1-U
Description: CRUZE 2x2 LED TROFFER
WITH RDP LENS
Light Source: (84) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2513.0 lumens
Efficiency: N/A
Efficacy: 60.1 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

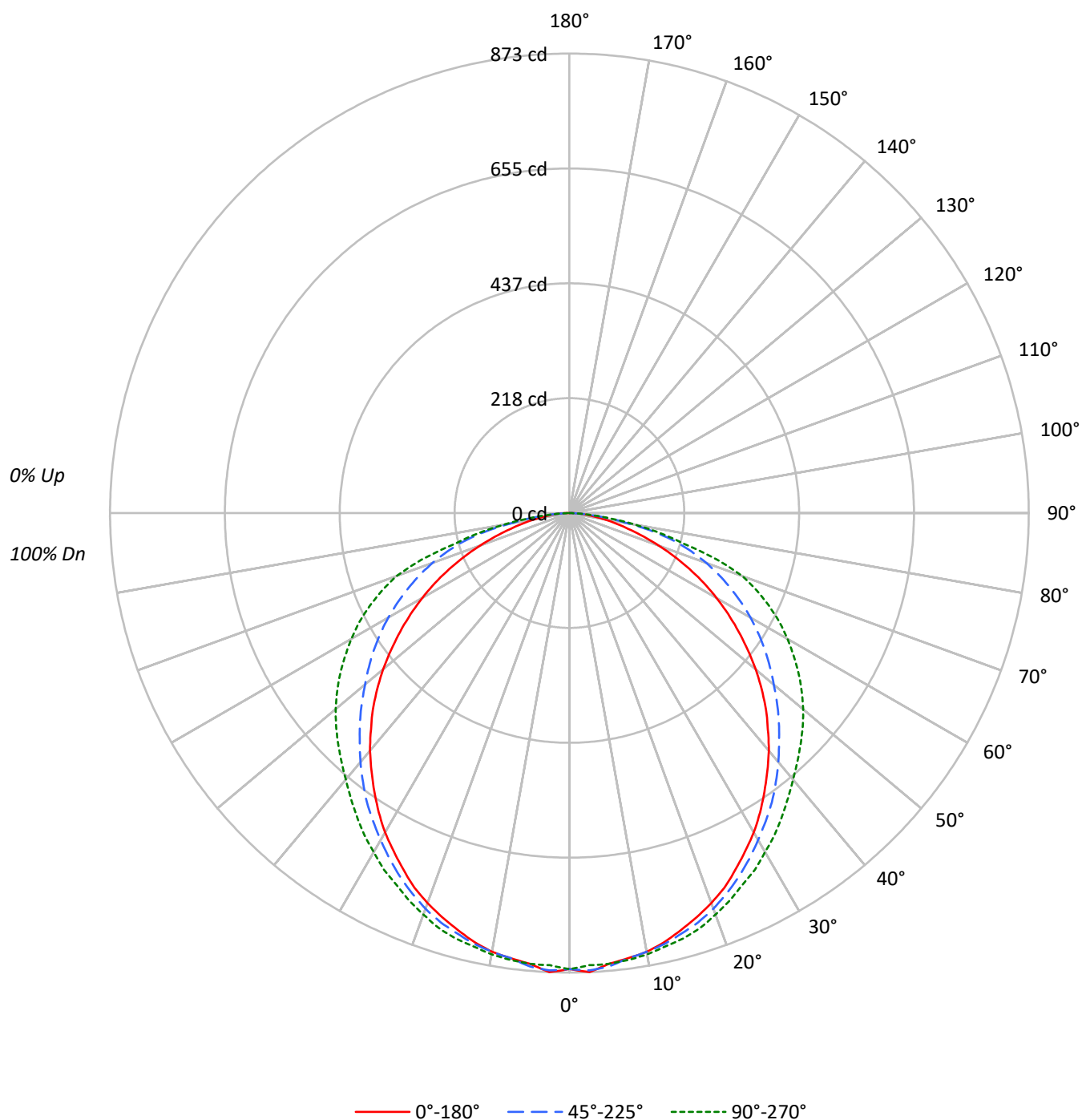
Input Watts (W): 41.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2331	2331	2331
5°	2323	2336	2323
10°	2313	2313	2327
15°	2284	2303	2331
20°	2258	2291	2324
25°	2218	2263	2312
30°	2177	2229	2311
35°	2122	2204	2313
40°	2072	2171	2322
45°	2011	2143	2364
50°	1935	2122	2427
55°	1842	2130	2495
60°	1738	2140	2576
65°	1603	2152	2669
70°	1421	2176	2750
75°	1206	2170	2342
80°	1001	1745	1951
85°	871	1176	1124



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.9	3.3
10°-20°	233.5	9.3
20°-30°	351.3	14.0
30°-40°	421.0	16.8
40°-50°	439.0	17.5
50°-60°	408.7	16.3
60°-70°	331.9	13.2
70°-80°	200.0	8.0
80°-90°	45.9	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°	666.6	26.5
0°-40°	1087.6	43.3
0°-60°	1935.3	77.0
0°-90°	2513.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2513.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	866	866	866	866	866	
5°	860	860	865	866	860	82
15°	820	823	827	832	837	231
25°	747	752	762	772	779	344
35°	646	654	671	691	704	404
45°	528	538	563	600	621	407
55°	393	409	454	504	532	351
65°	252	278	338	391	419	249
75°	116	154	209	222	225	125
85°	28	35	38	36	36	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	866.4	866.4	866.4	866.4	866.4
2.5°	873.0	871.4	869.7	864.7	859.8
5°	859.8	859.8	864.7	866.4	859.8
7.5°	853.1	853.1	853.1	859.8	856.4
10°	846.5	846.5	846.5	851.5	851.5
12.5°	834.9	836.6	838.2	839.9	843.2
15°	820.0	823.3	826.6	831.6	836.6
17.5°	805.1	808.4	815.0	820.0	826.6
20°	788.5	791.8	800.1	805.1	811.7
22.5°	770.3	772.0	781.9	788.5	796.8
25°	747.1	752.1	762.0	772.0	778.6
27.5°	723.9	728.9	740.5	753.7	763.7
30°	700.7	705.7	717.3	733.9	743.8
32.5°	674.2	680.9	694.1	714.0	725.6
35°	646.1	654.3	670.9	690.8	704.0
37.5°	617.9	626.2	644.4	669.3	682.5
40°	589.7	598.0	617.9	644.4	661.0
42.5°	558.3	568.2	589.7	621.2	641.1
45°	528.4	538.4	563.2	599.7	621.2
47.5°	495.3	506.9	535.1	576.5	601.3
50°	462.2	475.4	506.9	553.3	579.8
52.5°	427.4	442.3	480.4	528.4	556.6
55°	392.6	409.2	453.9	503.6	531.8
57.5°	357.8	376.0	425.7	477.1	505.3
60°	323.0	342.9	397.6	450.6	478.7
62.5°	288.2	309.8	367.8	420.8	450.6
65°	251.8	278.3	337.9	391.0	419.1
67.5°	215.4	246.8	308.1	359.5	386.0
70°	180.6	215.4	276.6	324.7	349.5
72.5°	147.4	183.9	243.5	284.9	294.9
75°	116.0	154.1	208.7	222.0	225.3
77.5°	89.5	124.2	165.7	169.0	177.3
80°	64.6	94.4	112.6	122.6	125.9
82.5°	44.7	64.6	74.5	76.2	77.9
85°	28.2	34.8	38.1	36.4	36.4
87.5°	14.9	13.3	11.6	8.3	6.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)