

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: P230860

Luminaire Tested: **22CZ-LD5-44-RDP-UNV-L930-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230860
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-L930-CD1-U
Description: CRUZE 2x2 LED TROFFER
WITH RDP LENS
Light Source: (84) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2418.0 lumens
Efficiency: N/A
Efficacy: 57.8 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

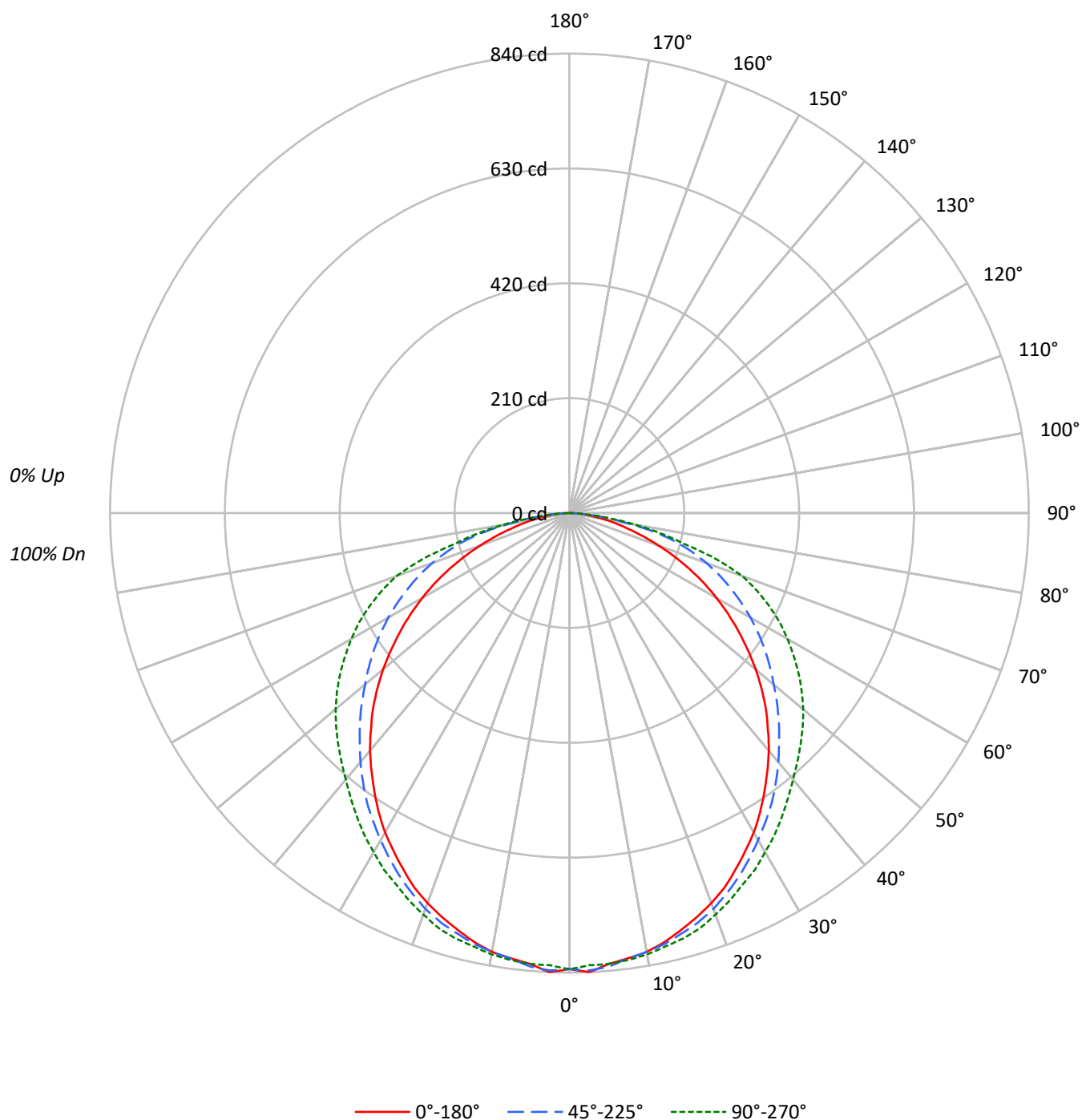
Input Watts (W): 41.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83		
2	98	90	83	77	96	88	81	76	84	79	74	81	77	73	78	74	71	69		
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	57		
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49		
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42		
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37		
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32		
8	60	46	37	31	58	45	37	31	44	37	31	43	36	31	42	35	31	29		
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26		
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	30	25	23		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2243	2243	2243
5°	2235	2247	2235
10°	2226	2226	2239
15°	2198	2216	2242
20°	2173	2205	2237
25°	2135	2177	2224
30°	2095	2145	2224
35°	2042	2121	2225
40°	1993	2088	2234
45°	1935	2062	2275
50°	1862	2042	2336
55°	1772	2049	2401
60°	1673	2059	2479
65°	1543	2071	2568
70°	1367	2094	2646
75°	1160	2088	2254
80°	964	1680	1877
85°	837	1133	1084



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.8	3.3
10°-20°	224.7	9.3
20°-30°	338.0	14.0
30°-40°	405.0	16.8
40°-50°	422.4	17.5
50°-60°	393.3	16.3
60°-70°	319.3	13.2
70°-80°	192.4	8.0
80°-90°	44.1	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°	641.4	26.5
0°-40°	1046.5	43.3
0°-60°	1862.1	77.0
0°-90°	2418.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2418.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	834	834	834	834	834	
5°	827	827	832	834	827	79
15°	789	792	795	800	805	223
25°	719	724	733	743	749	331
35°	622	630	646	665	677	389
45°	508	518	542	577	598	391
55°	378	394	437	485	512	338
65°	242	268	325	376	403	240
75°	112	148	201	214	217	121
85°	27	34	37	35	35	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	833.6	833.6	833.6	833.6	833.6
2.5°	840.0	838.4	836.8	832.0	827.3
5°	827.3	827.3	832.0	833.6	827.3
7.5°	820.9	820.9	820.9	827.3	824.1
10°	814.5	814.5	814.5	819.3	819.3
12.5°	803.4	804.9	806.5	808.1	811.3
15°	789.0	792.2	795.4	800.2	804.9
17.5°	774.7	777.8	784.2	789.0	795.4
20°	758.7	761.9	769.9	774.7	781.0
22.5°	741.2	742.8	752.3	758.7	766.7
25°	718.9	723.7	733.2	742.8	749.2
27.5°	696.6	701.3	712.5	725.2	734.8
30°	674.2	679.0	690.2	706.1	715.7
32.5°	648.7	655.1	667.9	687.0	698.1
35°	621.6	629.6	645.5	664.7	677.4
37.5°	594.5	602.5	620.0	644.0	656.7
40°	567.4	575.4	594.5	620.0	636.0
42.5°	537.2	546.7	567.4	597.7	616.9
45°	508.5	518.0	541.9	577.0	597.7
47.5°	476.6	487.7	514.8	554.7	578.6
50°	444.7	457.5	487.7	532.4	557.9
52.5°	411.2	425.6	462.2	508.5	535.6
55°	377.8	393.7	436.7	484.6	511.7
57.5°	344.3	361.8	409.6	459.1	486.2
60°	310.8	329.9	382.5	433.6	460.7
62.5°	277.3	298.1	353.9	404.9	433.6
65°	242.3	267.8	325.2	376.2	403.3
67.5°	207.2	237.5	296.5	345.9	371.4
70°	173.7	207.2	266.2	312.4	336.3
72.5°	141.9	176.9	234.3	274.2	283.7
75°	111.6	148.2	200.8	213.6	216.8
77.5°	86.1	119.5	159.4	162.6	170.6
80°	62.2	90.9	108.4	118.0	121.1
82.5°	43.0	62.2	71.7	73.3	74.9
85°	27.1	33.5	36.7	35.1	35.1
87.5°	14.3	12.8	11.2	8.0	6.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)