

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: P390381

Luminaire Tested: **22CZ2-44VHE-RDP-UNV-L930-CD1-SDWPD1-U**

Issue Date: 2/28/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

Test Information

Test Method: LM-79-08
Report Number: P390381
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-24)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 2/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-44VHE-RDP-UNV-L930-CD1-SDWPD1-U
Description: 2x2 CRUZE LED TROFFER WITH 3000K, 90 LEDS, AND RDP LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2501.4 lumens
Efficiency: N/A
Efficacy: 76.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

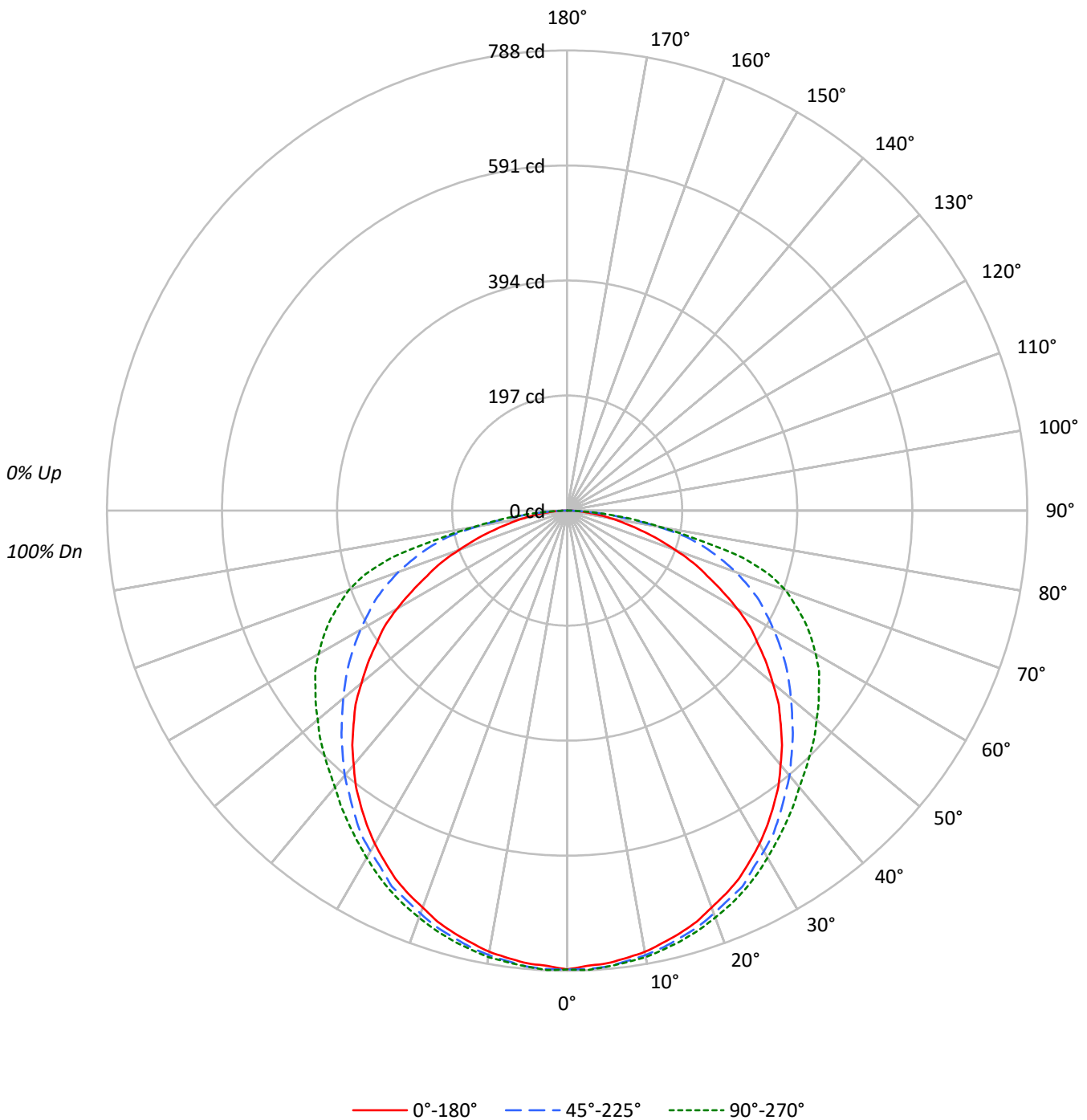
Input Watts (W): 32.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	98	94	105	100	96	92	96	92	89	92	89	86	88	86	84	82
2	97	88	81	75	95	86	80	74	83	77	72	80	75	71	76	72	69	67
3	88	77	68	61	86	75	67	61	72	65	60	70	64	59	67	62	58	55
4	80	68	59	51	78	66	58	51	64	56	50	61	55	50	59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33	31
8	59	45	36	30	57	44	35	30	43	35	29	41	34	29	40	34	29	27
9	55	41	32	27	53	40	32	27	39	32	26	38	31	26	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2114	2114	2114
5°	2103	2118	2118
10°	2097	2112	2122
15°	2086	2107	2122
20°	2071	2103	2124
25°	2065	2109	2131
30°	2047	2093	2133
35°	2025	2085	2146
40°	1997	2081	2172
45°	1968	2080	2241
50°	1926	2095	2334
55°	1873	2141	2469
60°	1812	2199	2644
65°	1687	2308	2859
70°	1549	2418	3127
75°	1358	2544	3234
80°	1168	2424	2538
85°	1022	1760	1933



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.3	3.0
10°-20°	213.4	8.5
20°-30°	325.6	13.0
30°-40°	397.5	15.9
40°-50°	425.1	17.0
50°-60°	410.3	16.4
60°-70°	353.2	14.1
70°-80°	239.0	9.6
80°-90°	63.0	2.5
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°	613.3	24.5
0°-40°	1010.9	40.4
0°-60°	1846.2	73.8
0°-90°	2501.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2501.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	786	786	786	786	786	
5°	778	780	784	784	784	74
15°	749	751	756	760	762	211
25°	696	699	710	714	718	320
35°	616	622	635	648	653	386
45°	517	526	546	574	589	399
55°	399	412	456	502	526	358
65°	265	291	362	420	449	264
75°	131	173	245	294	311	140
85°	33	46	57	59	63	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	785.7	785.7	785.7	785.7	785.7
2.5°	780.2	782.1	785.7	785.7	787.6
5°	778.4	780.2	783.9	783.9	783.9
7.5°	772.9	774.7	778.4	780.2	780.2
10°	767.3	769.2	772.9	774.7	776.5
12.5°	758.1	760.0	765.5	769.2	769.2
15°	748.9	750.8	756.3	760.0	761.8
17.5°	737.9	741.6	747.1	750.8	752.6
20°	723.2	726.8	734.2	739.7	741.6
22.5°	710.3	714.0	721.3	726.8	730.5
25°	695.6	699.2	710.3	714.0	717.6
27.5°	677.2	680.8	690.0	697.4	702.9
30°	658.8	662.4	673.5	682.7	686.4
32.5°	638.5	644.0	656.9	664.3	669.8
35°	616.4	622.0	634.8	647.7	653.2
37.5°	594.4	599.9	612.8	629.3	636.7
40°	568.6	576.0	592.5	614.6	618.3
42.5°	544.7	553.9	568.6	594.4	603.6
45°	517.1	526.3	546.5	574.1	588.8
47.5°	491.3	500.5	522.6	555.7	574.1
50°	460.0	472.9	500.5	539.2	557.6
52.5°	430.6	441.6	478.4	520.8	542.8
55°	399.3	412.2	456.4	502.4	526.3
57.5°	371.7	382.7	432.4	484.0	511.6
60°	336.7	351.5	408.5	463.7	491.3
62.5°	299.9	322.0	384.6	441.6	471.1
65°	265.0	290.7	362.5	419.5	449.0
67.5°	233.7	261.3	334.9	395.6	423.2
70°	196.9	231.9	307.3	366.2	397.5
72.5°	163.8	202.4	276.0	334.9	362.5
75°	130.6	173.0	244.7	294.4	311.0
77.5°	101.2	141.7	209.8	224.5	226.3
80°	75.4	112.2	156.4	158.3	163.8
82.5°	51.5	79.1	101.2	110.4	112.2
85°	33.1	46.0	57.0	58.9	62.6
87.5°	14.7	16.6	20.2	18.4	18.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)