

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: P277651

Luminaire Tested: **22CZ2-44HE-RDP-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277651
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-24)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-44HE-RDP-UNV-L92765-W2A1-U-4500K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2497.0 lumens
Efficiency: N/A
Efficacy: 70.8 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

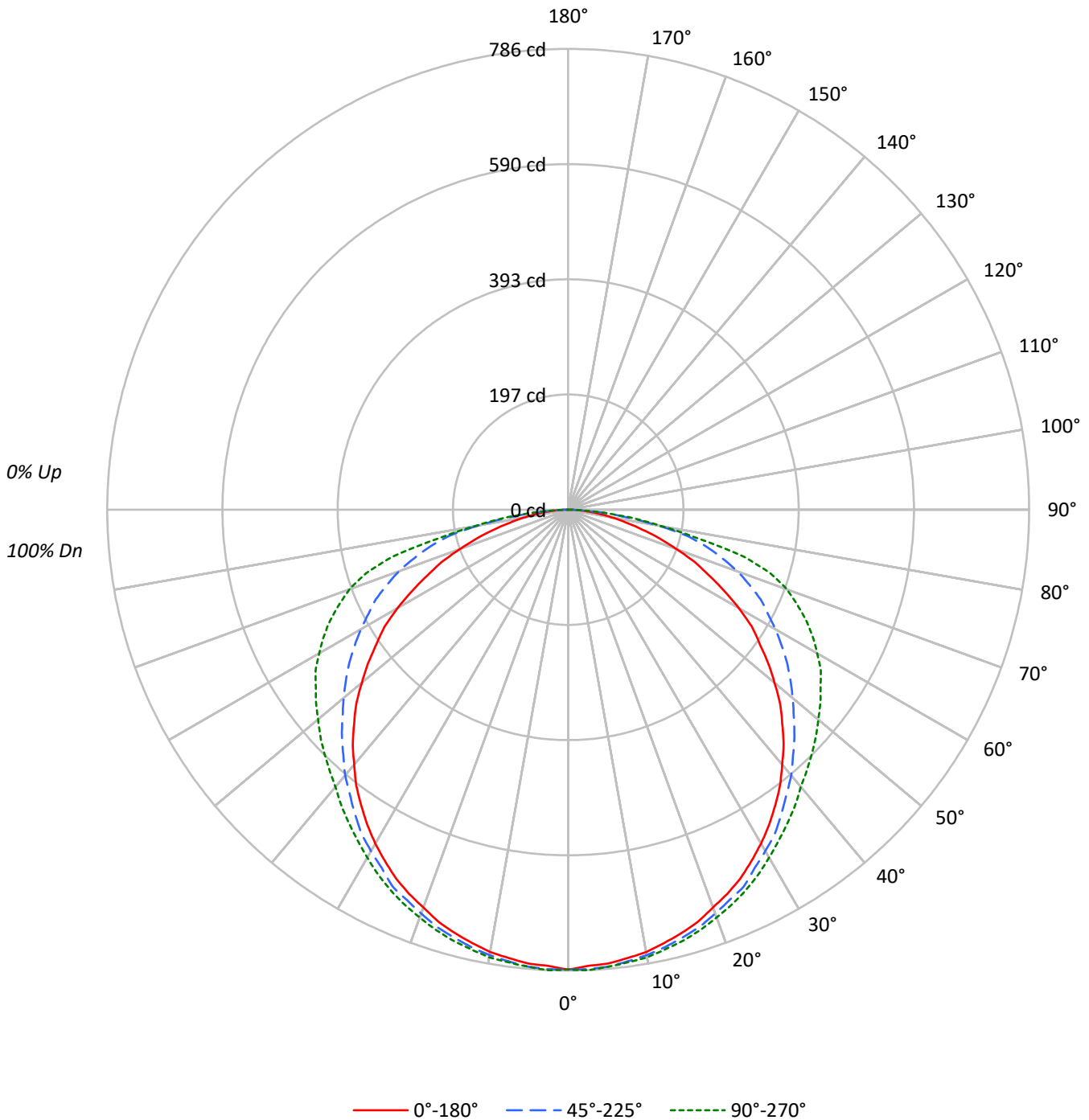
Input Watts (W): 35.247
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2111	2111	2111
5°	2099	2114	2114
10°	2093	2108	2118
15°	2083	2103	2119
20°	2067	2099	2120
25°	2061	2105	2127
30°	2043	2089	2129
35°	2022	2082	2142
40°	1994	2078	2168
45°	1964	2076	2237
50°	1922	2092	2330
55°	1870	2137	2464
60°	1809	2195	2639
65°	1684	2304	2854
70°	1546	2414	3122
75°	1356	2540	3227
80°	1167	2419	2534
85°	1022	1757	1930



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.2	3.0
10°-20°	213.0	8.5
20°-30°	325.0	13.0
30°-40°	396.8	15.9
40°-50°	424.3	17.0
50°-60°	409.6	16.4
60°-70°	352.6	14.1
70°-80°	238.5	9.6
80°-90°	62.9	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°	612.2	24.5
0°-40°	1009.1	40.4
0°-60°	1843.0	73.8
0°-90°	2497.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2497.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	784	784	784	784	784	
5°	777	779	782	782	782	74
15°	748	750	755	759	760	211
25°	694	698	709	713	716	320
35°	615	621	634	647	652	385
45°	516	525	546	573	588	398
55°	399	412	456	502	525	357
65°	264	290	362	419	448	263
75°	130	173	244	294	310	140
85°	33	46	57	59	62	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	784.4	784.4	784.4	784.4	784.4
2.5°	778.8	780.7	784.4	784.4	786.2
5°	777.0	778.8	782.5	782.5	782.5
7.5°	771.5	773.3	777.0	778.8	778.8
10°	766.0	767.8	771.5	773.3	775.2
12.5°	756.8	758.6	764.1	767.8	767.8
15°	747.6	749.5	755.0	758.6	760.5
17.5°	736.6	740.3	745.8	749.5	751.3
20°	721.9	725.6	732.9	738.4	740.3
22.5°	709.0	712.7	720.1	725.6	729.2
25°	694.3	698.0	709.0	712.7	716.4
27.5°	676.0	679.6	688.8	696.2	701.7
30°	657.6	661.3	672.3	681.5	685.2
32.5°	637.4	642.9	655.8	663.1	668.6
35°	615.4	620.9	633.7	646.6	652.1
37.5°	593.3	598.8	611.7	628.2	635.6
40°	567.6	574.9	591.5	613.5	617.2
42.5°	543.7	552.9	567.6	593.3	602.5
45°	516.2	525.3	545.6	573.1	587.8
47.5°	490.4	499.6	521.7	554.7	573.1
50°	459.2	472.1	499.6	538.2	556.6
52.5°	429.8	440.9	477.6	519.8	541.9
55°	398.6	411.5	455.5	501.5	525.3
57.5°	371.1	382.1	431.7	483.1	510.7
60°	336.2	350.8	407.8	462.9	490.4
62.5°	299.4	321.5	383.9	440.9	470.2
65°	264.5	290.2	361.9	418.8	448.2
67.5°	233.3	260.8	334.3	394.9	422.5
70°	196.5	231.4	306.8	365.5	396.8
72.5°	163.5	202.1	275.5	334.3	361.9
75°	130.4	172.7	244.3	293.9	310.4
77.5°	101.0	141.4	209.4	224.1	225.9
80°	75.3	112.1	156.1	158.0	163.5
82.5°	51.4	79.0	101.0	110.2	112.1
85°	33.1	45.9	56.9	58.8	62.5
87.5°	14.7	16.5	20.2	18.4	18.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)