

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: P260271

Luminaire Tested: **22CZ-LD5-44-SQP-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260271
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25713)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-44-SQP-UNV-L93050-W2A1-U-3000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2152.0 lumens
Efficiency: N/A
Efficacy: 60.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

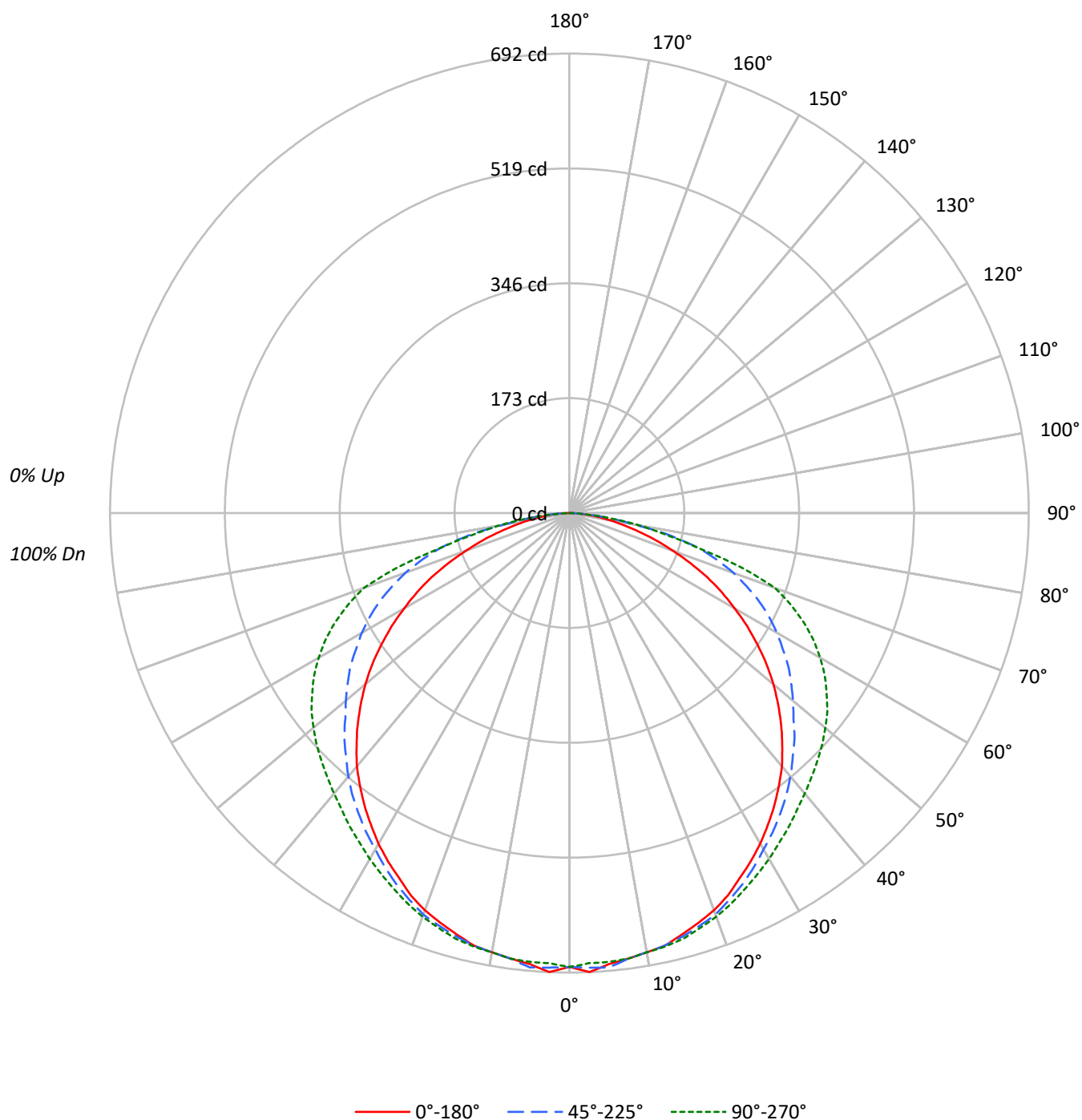
Input Watts (W): 35.391708
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	108	103	99	95	105	101	97	93	97	93	90		93	90	87		89
2	98	89	82	76	95	87	81	75	84	78	73		80	76	71		77
3	89	78	69	62	86	76	68	62	73	66	61		70	64	59		68
4	81	68	59	52	79	67	58	52	64	57	51		62	56	50		60
5	74	61	52	45	72	60	51	44	58	50	44		56	49	43		54
6	68	55	45	39	66	54	45	39	52	44	38		50	43	38		48
7	63	49	40	34	62	49	40	34	47	39	34		45	39	33		44
8	59	45	36	30	57	44	36	30	43	35	30		42	35	30		40
9	55	41	33	27	54	41	33	27	39	32	27		38	32	27		37
10	51	38	30	24	50	37	30	24	36	29	24		35	29	24		35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1839	1839	1839
5°	1842	1855	1833
10°	1836	1836	1836
15°	1830	1839	1848
20°	1823	1842	1852
25°	1801	1831	1856
30°	1786	1817	1869
35°	1768	1817	1894
40°	1749	1820	1937
45°	1717	1825	2010
50°	1679	1840	2106
55°	1623	1890	2219
60°	1547	1943	2348
65°	1458	2011	2479
70°	1302	2065	2590
75°	1129	2068	2050
80°	958	1528	1658
85°	824	1031	929



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.9	3.0
10°-20°	186.4	8.7
20°-30°	284.0	13.2
30°-40°	347.5	16.1
40°-50°	373.9	17.4
50°-60°	362.2	16.8
60°-70°	306.8	14.3
70°-80°	185.5	8.6
80°-90°	40.7	1.9
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°	535.3	24.9
0°-40°	882.8	41.0
0°-60°	1618.9	75.2
0°-90°	2152.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2152.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	684	684	684	684	684	
5°	682	682	687	684	678	65
15°	657	658	660	662	664	185
25°	607	610	617	622	625	280
35°	538	542	553	568	577	337
45°	451	460	480	510	528	348
55°	346	361	403	450	473	309
65°	229	254	316	366	389	225
75°	109	147	199	202	197	117
85°	27	32	33	32	30	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	683.5	683.5	683.5	683.5	683.5
2.5°	691.9	690.2	685.2	681.9	678.5
5°	681.9	681.9	686.9	683.5	678.5
7.5°	676.8	676.8	676.8	685.2	676.8
10°	671.8	673.5	671.8	678.5	671.8
12.5°	666.8	666.8	666.8	668.5	668.5
15°	656.8	658.5	660.1	661.8	663.5
17.5°	646.8	648.4	651.8	653.5	655.1
20°	636.7	638.4	643.4	643.4	646.8
22.5°	623.4	623.4	630.1	631.7	636.7
25°	606.7	610.0	616.7	621.7	625.0
27.5°	591.6	595.0	601.6	608.3	613.3
30°	574.9	578.2	584.9	595.0	601.6
32.5°	556.5	559.9	569.9	581.6	588.3
35°	538.1	541.5	553.2	568.2	576.6
37.5°	518.1	523.1	536.5	553.2	563.2
40°	498.0	503.0	518.1	536.5	551.5
42.5°	474.6	481.3	498.0	523.1	539.8
45°	451.2	459.6	479.6	509.7	528.1
47.5°	426.2	434.5	457.9	496.4	516.4
50°	401.1	411.1	439.5	481.3	503.0
52.5°	374.4	384.4	421.1	466.3	489.7
55°	345.9	361.0	402.8	449.6	473.0
57.5°	317.5	334.2	381.0	431.2	456.2
60°	287.5	307.5	361.0	411.1	436.2
62.5°	259.0	280.8	339.3	389.4	414.5
65°	229.0	254.0	315.9	366.0	389.4
67.5°	197.2	229.0	289.1	337.6	361.0
70°	165.5	202.2	262.4	307.5	329.2
72.5°	137.0	175.5	232.3	270.7	270.7
75°	108.6	147.1	198.9	202.2	197.2
77.5°	83.6	120.3	155.4	142.1	145.4
80°	61.8	91.9	98.6	103.6	107.0
82.5°	41.8	61.8	63.5	66.8	66.8
85°	26.7	31.8	33.4	31.8	30.1
87.5°	11.7	13.4	10.0	6.7	5.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)