

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: P260274

Luminaire Tested: **22CZ-LD5-44-SQP-UNV-L93050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260274
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-4500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2583.0 lumens
Efficiency: N/A
Efficacy: 71.7 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

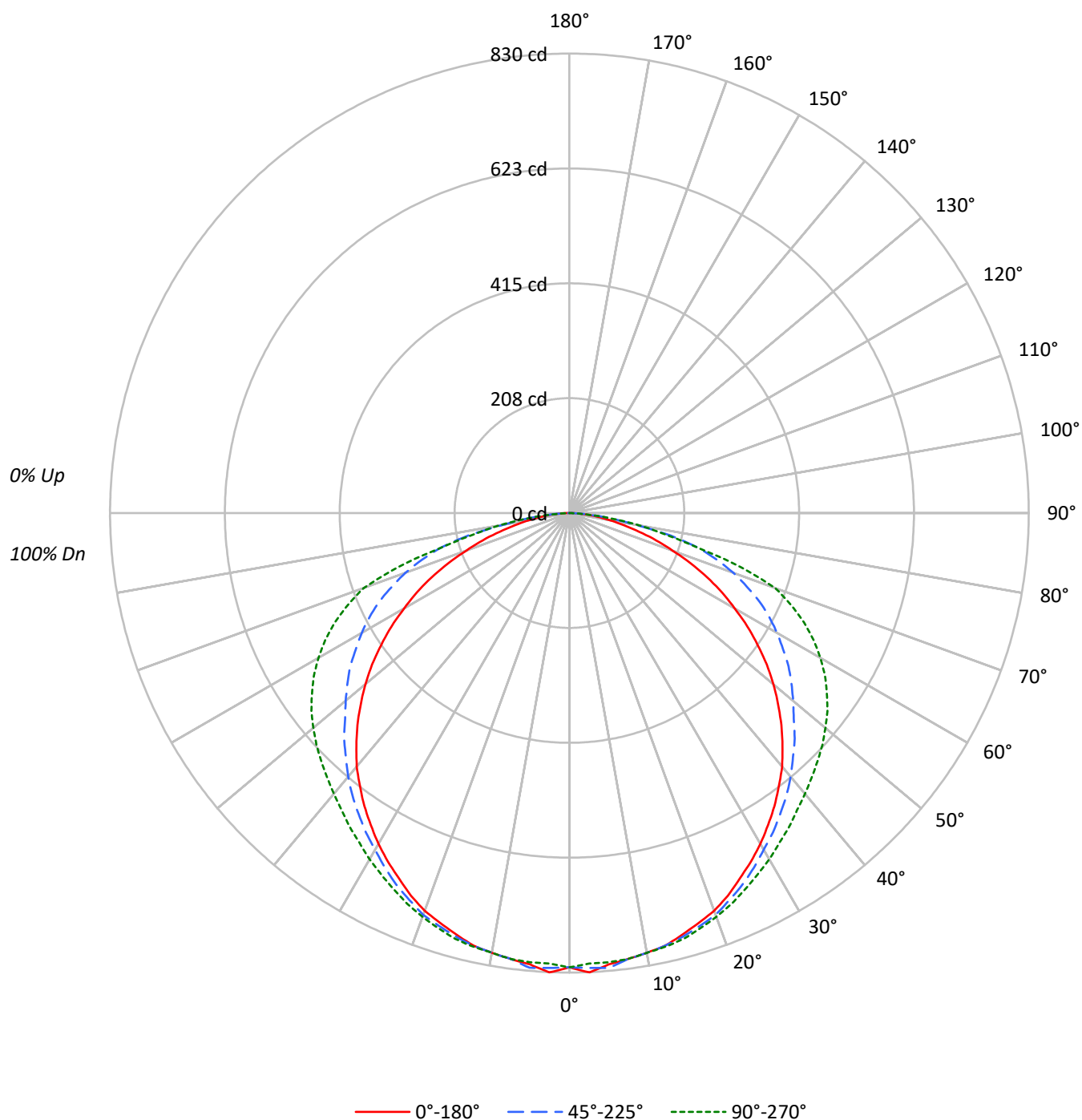
Input Watts (W): 36.049032
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2208	2208	2208
5°	2211	2227	2200
10°	2203	2203	2203
15°	2196	2207	2219
20°	2189	2212	2223
25°	2162	2198	2227
30°	2144	2182	2244
35°	2122	2181	2273
40°	2100	2184	2325
45°	2061	2191	2412
50°	2015	2209	2528
55°	1948	2268	2663
60°	1857	2332	2818
65°	1750	2414	2976
70°	1563	2478	3109
75°	1356	2482	2461
80°	1150	1835	1990
85°	991	1238	1115



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.9	3.0
10°-20°	223.7	8.7
20°-30°	340.9	13.2
30°-40°	417.1	16.1
40°-50°	448.8	17.4
50°-60°	434.8	16.8
60°-70°	368.3	14.3
70°-80°	222.6	8.6
80°-90°	48.9	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°	642.5	24.9
0°-40°	1059.6	41.0
0°-60°	1943.2	75.2
0°-90°	2583.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2583.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	820	820	820	820	820	
5°	818	818	824	820	814	78
15°	788	790	792	794	796	223
25°	728	732	740	746	750	336
35°	646	650	664	682	692	404
45°	542	552	576	612	634	417
55°	415	433	483	540	568	371
65°	275	305	379	439	467	271
75°	130	176	239	243	237	140
85°	32	38	40	38	36	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	820.4	820.4	820.4	820.4	820.4
2.5°	830.5	828.5	822.4	818.4	814.4
5°	818.4	818.4	824.4	820.4	814.4
7.5°	812.4	812.4	812.4	822.4	812.4
10°	806.4	808.4	806.4	814.4	806.4
12.5°	800.4	800.4	800.4	802.4	802.4
15°	788.3	790.3	792.3	794.4	796.4
17.5°	776.3	778.3	782.3	784.3	786.3
20°	764.3	766.3	772.3	772.3	776.3
22.5°	748.2	748.2	756.2	758.2	764.3
25°	728.2	732.2	740.2	746.2	750.2
27.5°	710.1	714.1	722.1	730.2	736.2
30°	690.0	694.1	702.1	714.1	722.1
32.5°	668.0	672.0	684.0	698.1	706.1
35°	645.9	649.9	664.0	682.0	692.0
37.5°	621.8	627.9	643.9	664.0	676.0
40°	597.8	603.8	621.8	643.9	662.0
42.5°	569.7	577.7	597.8	627.9	647.9
45°	541.6	551.6	575.7	611.8	633.9
47.5°	511.5	521.5	549.6	595.8	619.8
50°	481.4	493.5	527.6	577.7	603.8
52.5°	449.3	461.4	505.5	559.7	587.7
55°	415.2	433.3	483.4	539.6	567.7
57.5°	381.1	401.2	457.4	517.5	547.6
60°	345.0	369.1	433.3	493.5	523.6
62.5°	310.9	337.0	407.2	467.4	497.5
65°	274.8	304.9	379.1	439.3	467.4
67.5°	236.7	274.8	347.0	405.2	433.3
70°	198.6	242.7	314.9	369.1	395.2
72.5°	164.5	210.6	278.8	325.0	325.0
75°	130.4	176.5	238.7	242.7	236.7
77.5°	100.3	144.4	186.6	170.5	174.5
80°	74.2	110.3	118.4	124.4	128.4
82.5°	50.1	74.2	76.2	80.2	80.2
85°	32.1	38.1	40.1	38.1	36.1
87.5°	14.0	16.0	12.0	8.0	6.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)