

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: P260371

Luminaire Tested: **22CZ-LD5-39-SQP-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260371
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-LD5-39-SQP-UNV-L92765-W2A1-U-5000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2279.0 lumens
Efficiency: N/A
Efficacy: 73.8 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

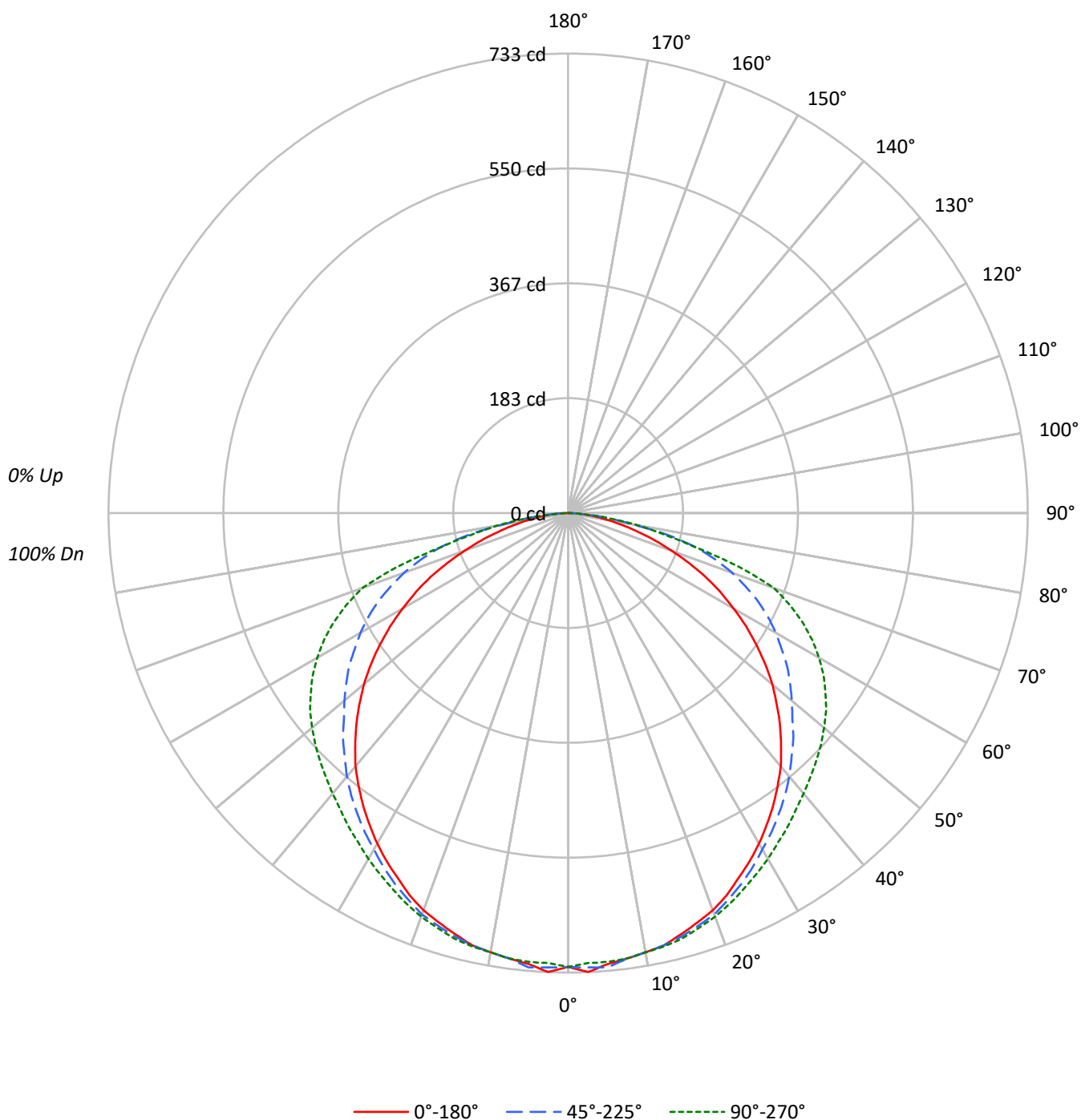
Input Watts (W): 30.876
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1948	1948	1948
5°	1951	1965	1941
10°	1944	1944	1944
15°	1938	1948	1957
20°	1931	1951	1961
25°	1908	1939	1965
30°	1892	1925	1980
35°	1872	1924	2006
40°	1853	1927	2052
45°	1819	1933	2128
50°	1778	1949	2230
55°	1719	2001	2350
60°	1638	2058	2486
65°	1544	2130	2626
70°	1378	2186	2744
75°	1196	2190	2171
80°	1015	1618	1756
85°	874	1093	985



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.7	3.0
10°-20°	197.4	8.7
20°-30°	300.8	13.2
30°-40°	368.0	16.1
40°-50°	396.0	17.4
50°-60°	383.6	16.8
60°-70°	324.9	14.3
70°-80°	196.4	8.6
80°-90°	43.2	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°	566.9	24.9
0°-40°	934.9	41.0
0°-60°	1714.5	75.2
0°-90°	2279.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2279.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	724	724	724	724	724	
5°	722	722	727	724	719	69
15°	696	697	699	701	703	196
25°	642	646	653	658	662	297
35°	570	573	586	602	611	356
45°	478	487	508	540	559	368
55°	366	382	426	476	501	327
65°	242	269	334	388	412	239
75°	115	156	211	214	209	124
85°	28	34	35	34	32	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	723.9	723.9	723.9	723.9	723.9
2.5°	732.7	731.0	725.6	722.1	718.6
5°	722.1	722.1	727.4	723.9	718.6
7.5°	716.8	716.8	716.8	725.6	716.8
10°	711.5	713.3	711.5	718.6	711.5
12.5°	706.2	706.2	706.2	707.9	707.9
15°	695.6	697.3	699.1	700.9	702.6
17.5°	684.9	686.7	690.2	692.0	693.8
20°	674.3	676.1	681.4	681.4	684.9
22.5°	660.2	660.2	667.2	669.0	674.3
25°	642.5	646.0	653.1	658.4	661.9
27.5°	626.5	630.1	637.1	644.2	649.5
30°	608.8	612.4	619.4	630.1	637.1
32.5°	589.4	592.9	603.5	615.9	623.0
35°	569.9	573.4	585.8	601.8	610.6
37.5°	548.7	554.0	568.1	585.8	596.4
40°	527.4	532.7	548.7	568.1	584.1
42.5°	502.6	509.7	527.4	554.0	571.7
45°	477.9	486.7	507.9	539.8	559.3
47.5°	451.3	460.2	484.9	525.6	546.9
50°	424.8	435.4	465.5	509.7	532.7
52.5°	396.4	407.1	446.0	493.8	518.6
55°	366.4	382.3	426.5	476.1	500.9
57.5°	336.3	354.0	403.5	456.6	483.2
60°	304.4	325.7	382.3	435.4	461.9
62.5°	274.3	297.3	359.3	412.4	438.9
65°	242.5	269.0	334.5	387.6	412.4
67.5°	208.8	242.5	306.2	357.5	382.3
70°	175.2	214.2	277.9	325.7	348.7
72.5°	145.1	185.8	246.0	286.7	286.7
75°	115.0	155.7	210.6	214.2	208.8
77.5°	88.5	127.4	164.6	150.4	154.0
80°	65.5	97.3	104.4	109.7	113.3
82.5°	44.2	65.5	67.3	70.8	70.8
85°	28.3	33.6	35.4	33.6	31.9
87.5°	12.4	14.2	10.6	7.1	5.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)