

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: P260372

Luminaire Tested: **22CZ-LD5-39-SQP-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260372
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-5500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2314.0 lumens
Efficiency: N/A
Efficacy: 74.7 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

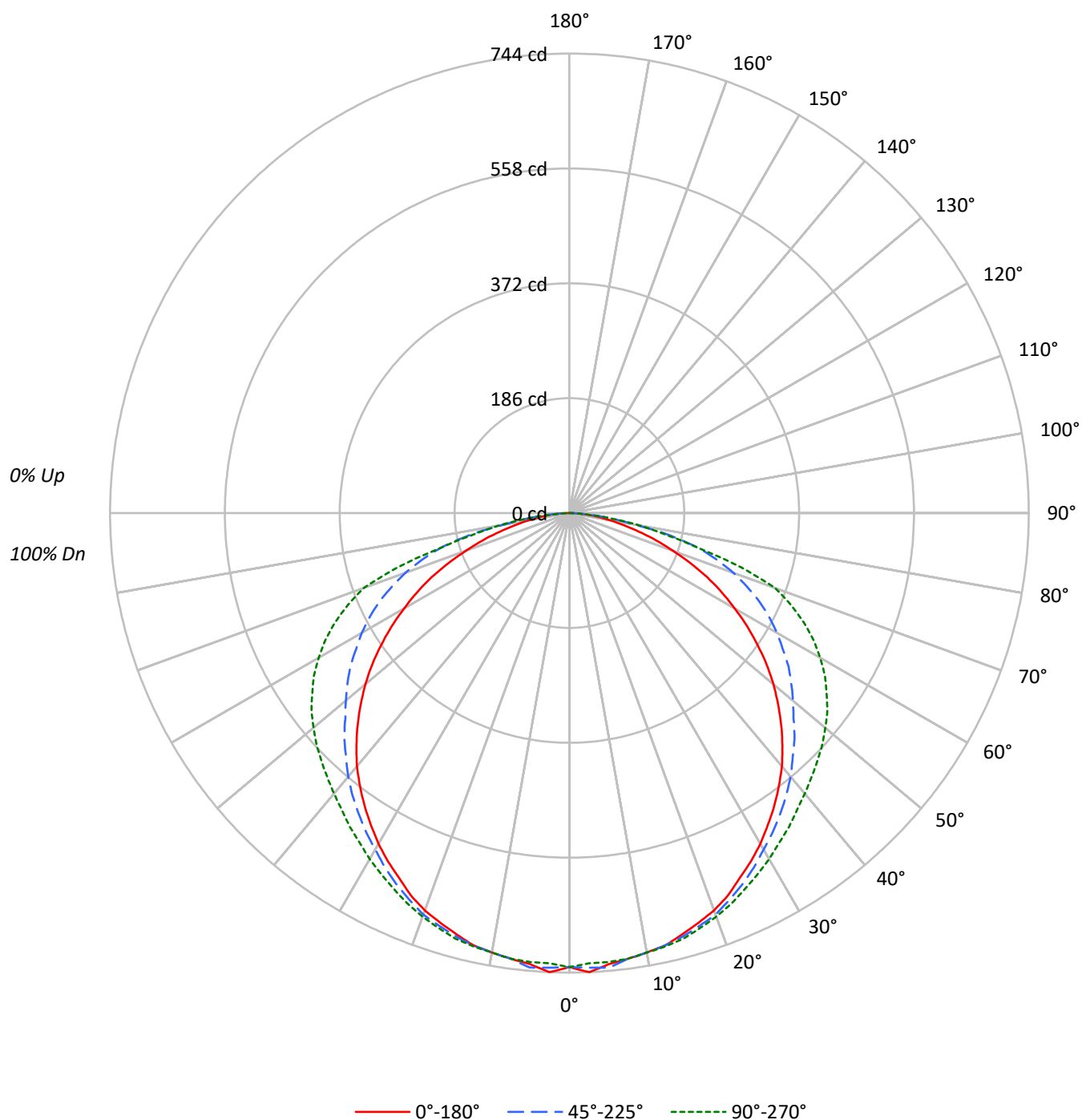
Input Watts (W): 30.969
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1978	1978	1978
5°	1981	1995	1971
10°	1974	1974	1974
15°	1967	1977	1987
20°	1961	1981	1992
25°	1937	1969	1996
30°	1921	1954	2010
35°	1901	1954	2037
40°	1881	1957	2083
45°	1846	1963	2161
50°	1806	1979	2264
55°	1745	2032	2386
60°	1664	2089	2524
65°	1568	2162	2666
70°	1400	2220	2785
75°	1214	2223	2205
80°	1031	1643	1782
85°	889	1108	997



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.8	3.0
10°-20°	200.4	8.7
20°-30°	305.4	13.2
30°-40°	373.7	16.1
40°-50°	402.1	17.4
50°-60°	389.5	16.8
60°-70°	329.9	14.3
70°-80°	199.4	8.6
80°-90°	43.8	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°	575.6	24.9
0°-40°	949.3	41.0
0°-60°	1740.8	75.2
0°-90°	2314.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2314.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	735	735	735	735	735	
5°	733	733	739	735	730	70
15°	706	708	710	712	713	199
25°	652	656	663	668	672	301
35°	579	582	595	611	620	362
45°	485	494	516	548	568	374
55°	372	388	433	483	509	332
65°	246	273	340	394	419	242
75°	117	158	214	217	212	126
85°	29	34	36	34	32	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	735.0	735.0	735.0	735.0	735.0
2.5°	744.0	742.2	736.8	733.2	729.6
5°	733.2	733.2	738.6	735.0	729.6
7.5°	727.8	727.8	727.8	736.8	727.8
10°	722.4	724.2	722.4	729.6	722.4
12.5°	717.0	717.0	717.0	718.8	718.8
15°	706.2	708.0	709.8	711.6	713.4
17.5°	695.5	697.3	700.8	702.6	704.4
20°	684.7	686.5	691.9	691.9	695.5
22.5°	670.3	670.3	677.5	679.3	684.7
25°	652.3	655.9	663.1	668.5	672.1
27.5°	636.2	639.7	646.9	654.1	659.5
30°	618.2	621.8	629.0	639.7	646.9
32.5°	598.4	602.0	612.8	625.4	632.6
35°	578.6	582.2	594.8	611.0	620.0
37.5°	557.1	562.5	576.8	594.8	605.6
40°	535.5	540.9	557.1	576.8	593.0
42.5°	510.4	517.5	535.5	562.5	580.4
45°	485.2	494.2	515.7	548.1	567.9
47.5°	458.2	467.2	492.4	533.7	555.3
50°	431.3	442.1	472.6	517.5	540.9
52.5°	402.5	413.3	452.9	501.4	526.5
55°	372.0	388.2	433.1	483.4	508.6
57.5°	341.4	359.4	409.7	463.6	490.6
60°	309.1	330.7	388.2	442.1	469.0
62.5°	278.5	301.9	364.8	418.7	445.7
65°	246.2	273.1	339.6	393.6	418.7
67.5°	212.1	246.2	310.9	363.0	388.2
70°	177.9	217.4	282.1	330.7	354.0
72.5°	147.4	188.7	249.8	291.1	291.1
75°	116.8	158.1	213.8	217.4	212.1
77.5°	89.9	129.4	167.1	152.7	156.3
80°	66.5	98.8	106.0	111.4	115.0
82.5°	44.9	66.5	68.3	71.9	71.9
85°	28.8	34.1	35.9	34.1	32.3
87.5°	12.6	14.4	10.8	7.2	5.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)