

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: P230812

Luminaire Tested: **22CZ-LD5-39-SQP-UNV-L930-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230812
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-L930-CD1-U
Description: CRUZE 2x2 LED TROFFER
WITH SQP LENS
Light Source: (84) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2250.0 lumens
Efficiency: N/A
Efficacy: 61.8 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

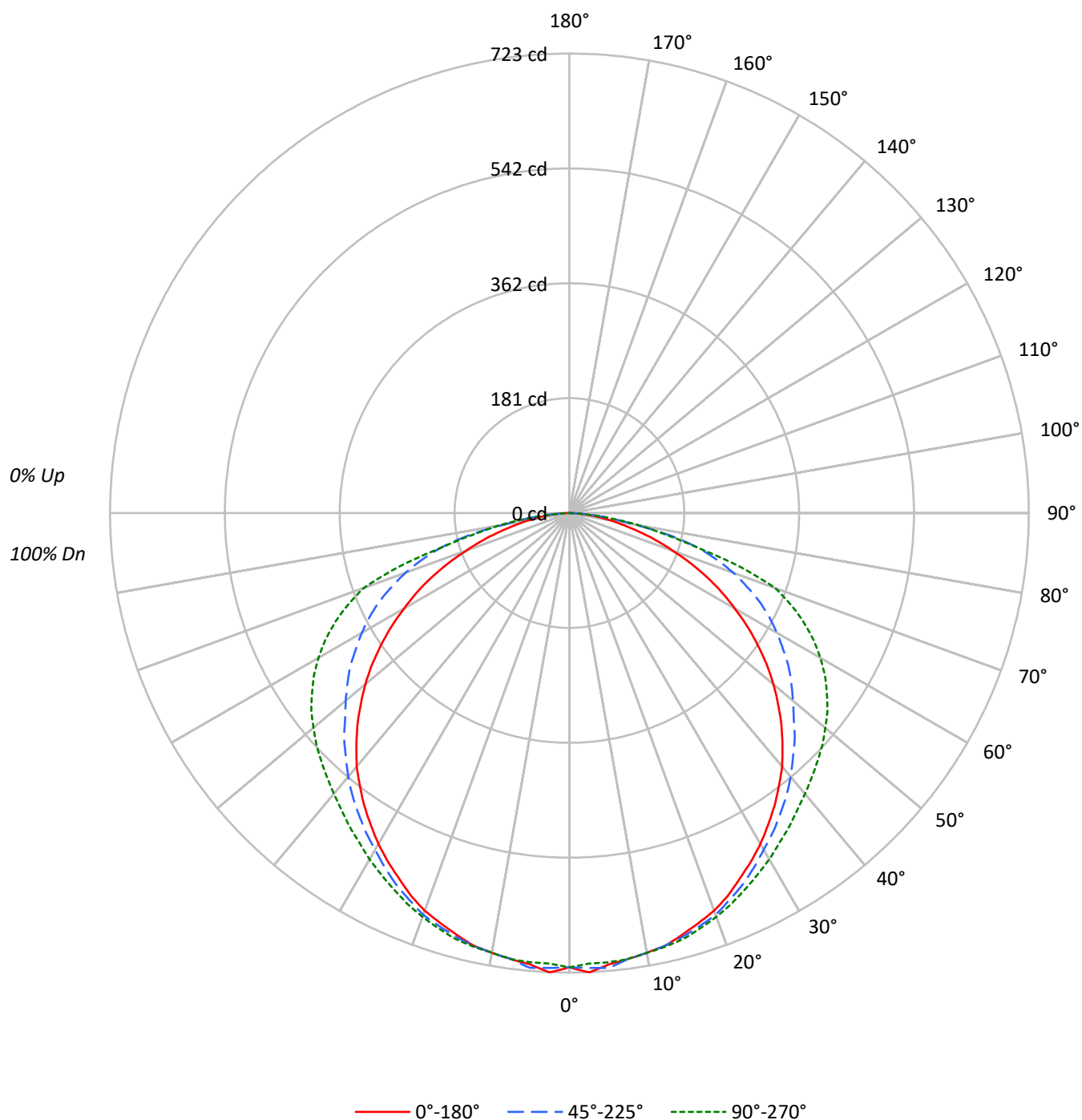
Input Watts (W): 36.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0
RW	70	50	30	10	70	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		100
1	108	103	99	95	105	101	97	93	97	93	90		93	90	87		83
2	98	89	82	76	95	87	81	75	84	78	73		80	76	71		68
3	89	78	69	62	86	76	68	62	73	66	61		70	64	59		56
4	81	68	59	52	79	67	58	52	64	57	51		62	56	50		47
5	74	61	52	45	72	60	51	44	58	50	44		56	49	43		41
6	68	55	45	39	66	54	45	39	52	44	38		50	43	38		35
7	63	49	40	34	62	49	40	34	47	39	34		45	39	33		31
8	59	45	36	30	57	44	36	30	43	35	30		42	35	30		28
9	55	41	33	27	54	41	33	27	39	32	27		38	32	27		25
10	51	38	30	24	50	37	30	24	36	29	24		35	29	24		22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1923	1923	1923
5°	1926	1940	1916
10°	1919	1919	1919
15°	1913	1923	1933
20°	1906	1926	1936
25°	1883	1915	1940
30°	1868	1900	1954
35°	1848	1900	1980
40°	1829	1903	2025
45°	1795	1909	2101
50°	1756	1924	2202
55°	1697	1976	2320
60°	1617	2031	2455
65°	1524	2103	2592
70°	1361	2158	2708
75°	1181	2162	2144
80°	1003	1598	1733
85°	865	1078	973



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.9	3.0
10°-20°	194.9	8.7
20°-30°	297.0	13.2
30°-40°	363.4	16.1
40°-50°	390.9	17.4
50°-60°	378.7	16.8
60°-70°	320.8	14.3
70°-80°	193.9	8.6
80°-90°	42.6	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°	559.7	24.9
0°-40°	923.0	41.0
0°-60°	1692.7	75.2
0°-90°	2250.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2250.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	715	715	715	715	715	
5°	713	713	718	715	709	68
15°	687	688	690	692	694	194
25°	634	638	645	650	654	293
35°	563	566	578	594	603	352
45°	472	480	502	533	552	364
55°	362	377	421	470	494	323
65°	239	266	330	383	407	236
75°	114	154	208	211	206	122
85°	28	33	35	33	32	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	714.7	714.7	714.7	714.7	714.7
2.5°	723.4	721.6	716.4	712.9	709.4
5°	712.9	712.9	718.2	714.7	709.4
7.5°	707.7	707.7	707.7	716.4	707.7
10°	702.4	704.2	702.4	709.4	702.4
12.5°	697.2	697.2	697.2	698.9	698.9
15°	686.7	688.5	690.2	691.9	693.7
17.5°	676.2	678.0	681.5	683.2	685.0
20°	665.7	667.5	672.7	672.7	676.2
22.5°	651.8	651.8	658.7	660.5	665.7
25°	634.3	637.8	644.8	650.0	653.5
27.5°	618.6	622.1	629.0	636.0	641.3
30°	601.1	604.6	611.6	622.1	629.0
32.5°	581.9	585.4	595.8	608.1	615.1
35°	562.6	566.1	578.4	594.1	602.8
37.5°	541.7	546.9	560.9	578.4	588.9
40°	520.7	525.9	541.7	560.9	576.6
42.5°	496.2	503.2	520.7	546.9	564.4
45°	471.8	480.5	501.5	532.9	552.2
47.5°	445.6	454.3	478.8	519.0	539.9
50°	419.4	429.8	459.5	503.2	525.9
52.5°	391.4	401.9	440.3	487.5	512.0
55°	361.7	377.4	421.1	470.0	494.5
57.5°	332.0	349.5	398.4	450.8	477.0
60°	300.5	321.5	377.4	429.8	456.1
62.5°	270.8	293.6	354.7	407.1	433.3
65°	239.4	265.6	330.2	382.7	407.1
67.5°	206.2	239.4	302.3	353.0	377.4
70°	173.0	211.4	274.3	321.5	344.2
72.5°	143.3	183.5	242.9	283.1	283.1
75°	113.6	153.8	207.9	211.4	206.2
77.5°	87.4	125.8	162.5	148.5	152.0
80°	64.7	96.1	103.1	108.3	111.8
82.5°	43.7	64.7	66.4	69.9	69.9
85°	28.0	33.2	34.9	33.2	31.5
87.5°	12.2	14.0	10.5	7.0	5.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)