

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: P260312

Luminaire Tested: **22CZ-LD5-39-SQP-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260312
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-L82765-W2A1-U-2700K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2262.0 lumens
Efficiency: N/A
Efficacy: 75.1 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

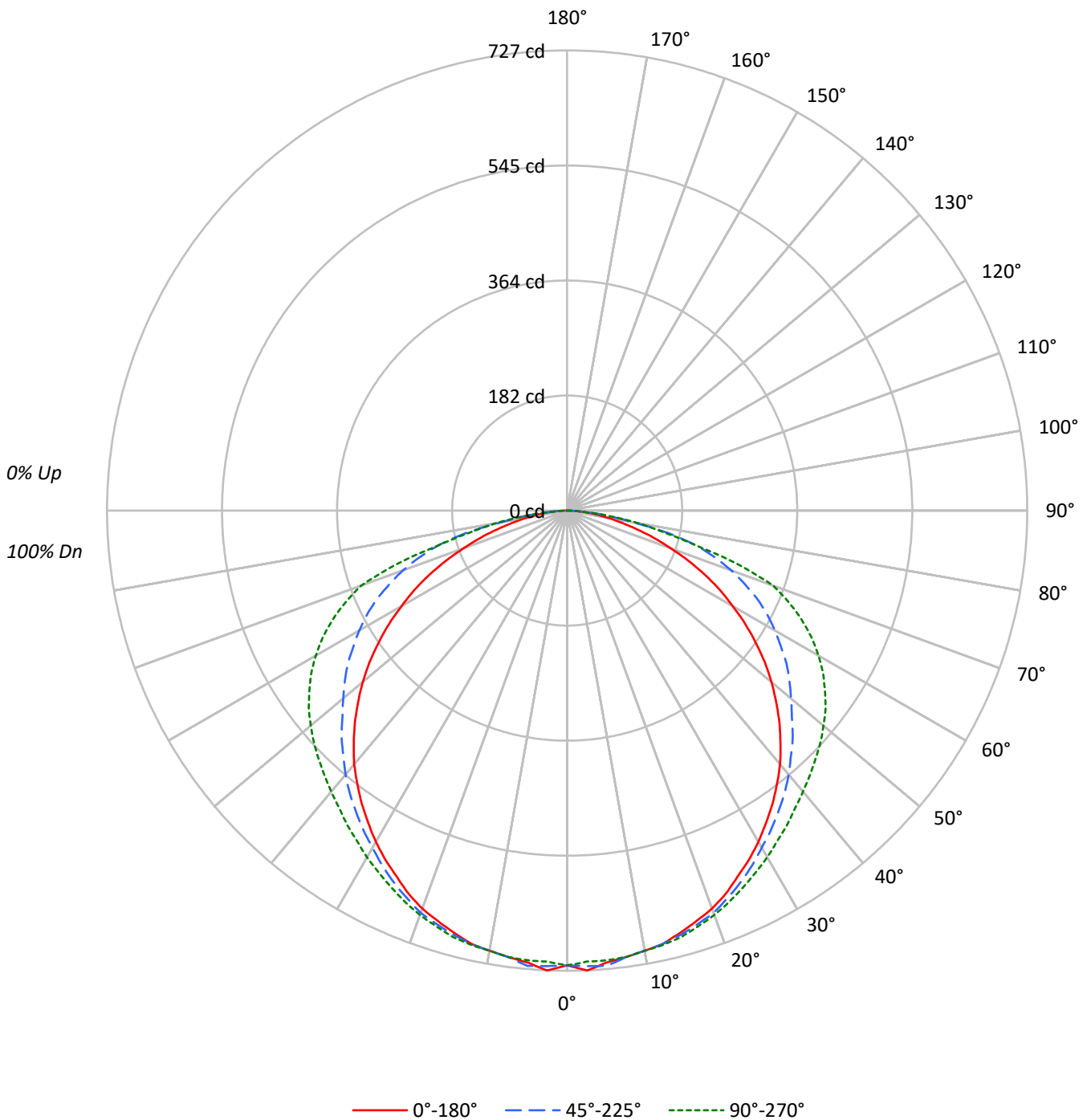
Input Watts (W): 30.132
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RW	70	50	30	10	70	50	30	10	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	102	102	102	100
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58	56
4	81	68	59	52	79	67	58	52	64	57	51	62	56	50	60	54	50	47
5	74	61	52	45	72	60	51	44	58	50	44	56	49	43	54	48	43	41
6	68	55	45	39	66	54	45	39	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	28
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1933	1933	1933
5°	1936	1950	1927
10°	1930	1930	1930
15°	1923	1933	1943
20°	1917	1937	1947
25°	1893	1925	1951
30°	1878	1910	1965
35°	1858	1910	1991
40°	1839	1913	2036
45°	1805	1919	2112
50°	1765	1934	2214
55°	1706	1986	2332
60°	1626	2042	2468
65°	1533	2114	2606
70°	1368	2170	2723
75°	1187	2173	2155
80°	1007	1605	1742
85°	868	1084	976



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.2	3.0
10°-20°	195.9	8.7
20°-30°	298.5	13.2
30°-40°	365.3	16.1
40°-50°	393.0	17.4
50°-60°	380.7	16.8
60°-70°	322.5	14.3
70°-80°	194.9	8.6
80°-90°	42.8	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°	562.7	24.9
0°-40°	928.0	41.0
0°-60°	1701.7	75.2
0°-90°	2262.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2262.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	718	718	718	718	718	
5°	717	717	722	718	713	68
15°	690	692	694	696	697	195
25°	638	641	648	654	657	294
35°	566	569	582	597	606	354
45°	474	483	504	536	555	366
55°	364	379	423	472	497	325
65°	241	267	332	385	409	237
75°	114	155	209	213	207	123
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°	718.5	718.5	718.5	718.5	718.5
2.5°	727.3	725.5	720.2	716.7	713.2
5°	716.7	716.7	722.0	718.5	713.2
7.5°	711.4	711.4	711.4	720.2	711.4
10°	706.2	707.9	706.2	713.2	706.2
12.5°	700.9	700.9	700.9	702.7	702.7
15°	690.4	692.1	693.9	695.6	697.4
17.5°	679.8	681.6	685.1	686.9	688.6
20°	669.3	671.0	676.3	676.3	679.8
22.5°	655.2	655.2	662.3	664.0	669.3
25°	637.7	641.2	648.2	653.5	657.0
27.5°	621.9	625.4	632.4	639.4	644.7
30°	604.3	607.8	614.8	625.4	632.4
32.5°	585.0	588.5	599.0	611.3	618.3
35°	565.6	569.2	581.5	597.3	606.0
37.5°	544.6	549.8	563.9	581.5	592.0
40°	523.5	528.8	544.6	563.9	579.7
42.5°	498.9	505.9	523.5	549.8	567.4
45°	474.3	483.1	504.2	535.8	555.1
47.5°	447.9	456.7	481.3	521.7	542.8
50°	421.6	432.1	462.0	505.9	528.8
52.5°	393.5	404.0	442.7	490.1	514.7
55°	363.6	379.4	423.4	472.5	497.1
57.5°	333.8	351.3	400.5	453.2	479.6
60°	302.1	323.2	379.4	432.1	458.5
62.5°	272.3	295.1	356.6	409.3	435.7
65°	240.7	267.0	332.0	384.7	409.3
67.5°	207.3	240.7	303.9	354.8	379.4
70°	173.9	212.6	275.8	323.2	346.1
72.5°	144.0	184.4	244.2	284.6	284.6
75°	114.2	154.6	209.0	212.6	207.3
77.5°	87.8	126.5	163.4	149.3	152.8
80°	65.0	96.6	103.6	108.9	112.4
82.5°	43.9	65.0	66.8	70.3	70.3
85°	28.1	33.4	35.1	33.4	31.6
87.5°	12.3	14.1	10.5	7.0	5.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)