

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: P260306

Luminaire Tested: **22CZ-LD5-34-SQP-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260306
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-LD5-34-SQP-UNV-L82765-W2A1-U-4000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2147.0 lumens
Efficiency: N/A
Efficacy: 82.7 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

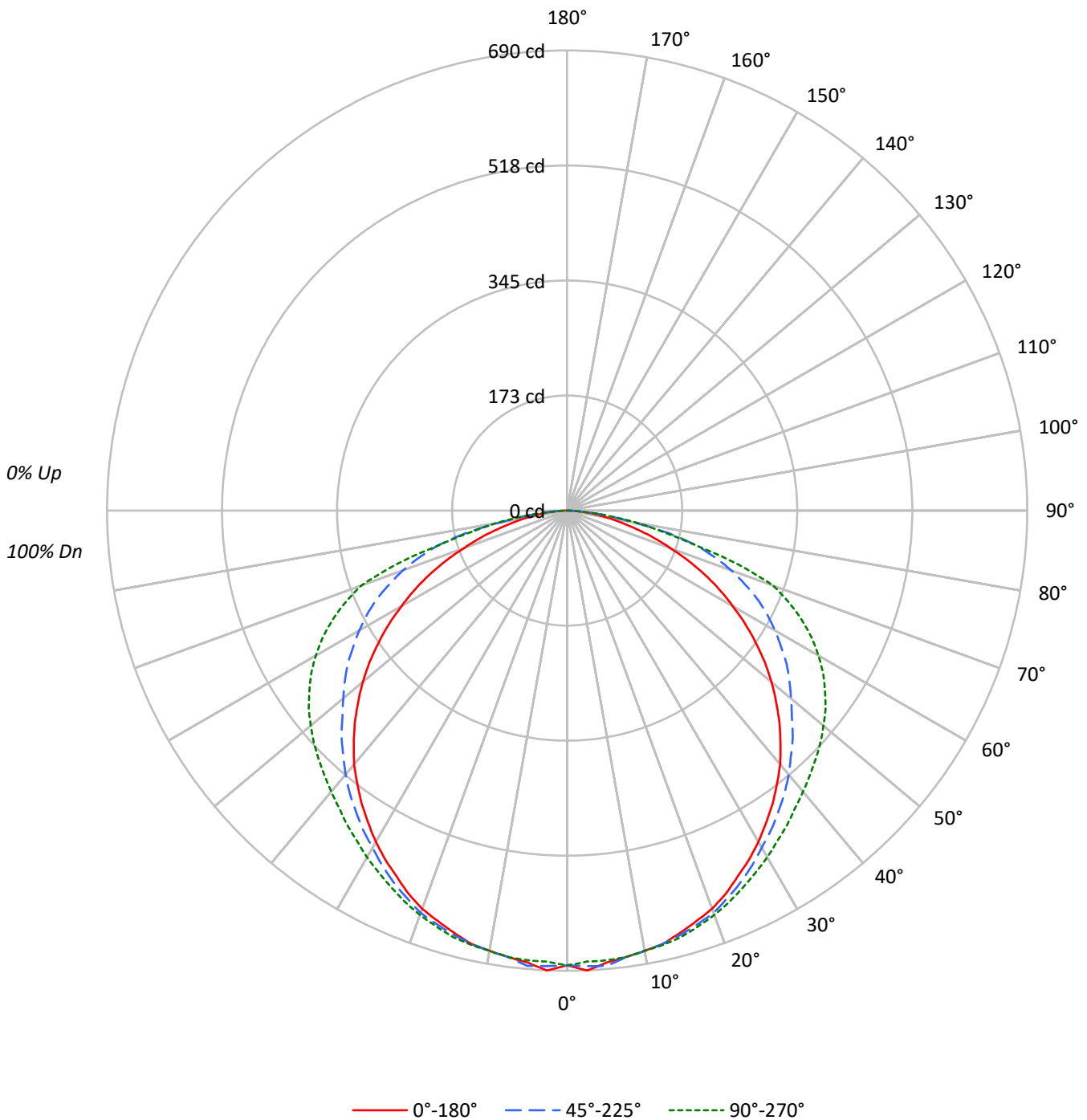
Input Watts (W): 25.947
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1835	1835	1835
5°	1838	1851	1828
10°	1832	1832	1832
15°	1826	1835	1844
20°	1819	1838	1848
25°	1797	1827	1852
30°	1782	1813	1865
35°	1764	1813	1890
40°	1746	1816	1933
45°	1713	1821	2005
50°	1675	1836	2101
55°	1619	1885	2214
60°	1544	1938	2342
65°	1454	2006	2474
70°	1299	2060	2585
75°	1127	2063	2045
80°	956	1525	1654
85°	824	1028	926



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.7	3.0
10°-20°	185.9	8.7
20°-30°	283.4	13.2
30°-40°	346.7	16.1
40°-50°	373.1	17.4
50°-60°	361.4	16.8
60°-70°	306.1	14.3
70°-80°	185.0	8.6
80°-90°	40.7	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°	534.1	24.9
0°-40°	880.8	41.0
0°-60°	1615.2	75.2
0°-90°	2147.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2147.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	682	682	682	682	682	
5°	680	680	685	682	677	65
15°	655	657	659	660	662	185
25°	605	609	615	620	624	279
35°	537	540	552	567	575	336
45°	450	458	478	508	527	347
55°	345	360	402	448	472	308
65°	228	253	315	365	388	225
75°	108	147	198	202	197	116
85°	27	32	33	32	30	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	681.9	681.9	681.9	681.9	681.9
2.5°	690.3	688.6	683.6	680.3	676.9
5°	680.3	680.3	685.3	681.9	676.9
7.5°	675.3	675.3	675.3	683.6	675.3
10°	670.3	671.9	670.3	676.9	670.3
12.5°	665.3	665.3	665.3	666.9	666.9
15°	655.3	656.9	658.6	660.3	661.9
17.5°	645.3	646.9	650.3	651.9	653.6
20°	635.3	636.9	641.9	641.9	645.3
22.5°	621.9	621.9	628.6	630.3	635.3
25°	605.2	608.6	615.3	620.3	623.6
27.5°	590.2	593.6	600.2	606.9	611.9
30°	573.6	576.9	583.6	593.6	600.2
32.5°	555.2	558.6	568.6	580.2	586.9
35°	536.9	540.2	551.9	566.9	575.2
37.5°	516.9	521.9	535.2	551.9	561.9
40°	496.9	501.9	516.9	535.2	550.2
42.5°	473.5	480.2	496.9	521.9	538.6
45°	450.2	458.5	478.5	508.5	526.9
47.5°	425.2	433.5	456.9	495.2	515.2
50°	400.2	410.2	438.5	480.2	501.9
52.5°	373.5	383.5	420.2	465.2	488.5
55°	345.1	360.1	401.8	448.5	471.9
57.5°	316.8	333.5	380.2	430.2	455.2
60°	286.8	306.8	360.1	410.2	435.2
62.5°	258.4	280.1	338.5	388.5	413.5
65°	228.4	253.4	315.1	365.1	388.5
67.5°	196.7	228.4	288.5	336.8	360.1
70°	165.1	201.7	261.8	306.8	328.5
72.5°	136.7	175.1	231.8	270.1	270.1
75°	108.4	146.7	198.4	201.7	196.7
77.5°	83.4	120.0	155.1	141.7	145.1
80°	61.7	91.7	98.4	103.4	106.7
82.5°	41.7	61.7	63.4	66.7	66.7
85°	26.7	31.7	33.3	31.7	30.0
87.5°	11.7	13.3	10.0	6.7	5.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)