

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: P260232

Luminaire Tested: **22CZ-LD5-34-SQP-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260232
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-L83050-W2A1-U-3500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2151.0 lumens
Efficiency: N/A
Efficacy: 83.8 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

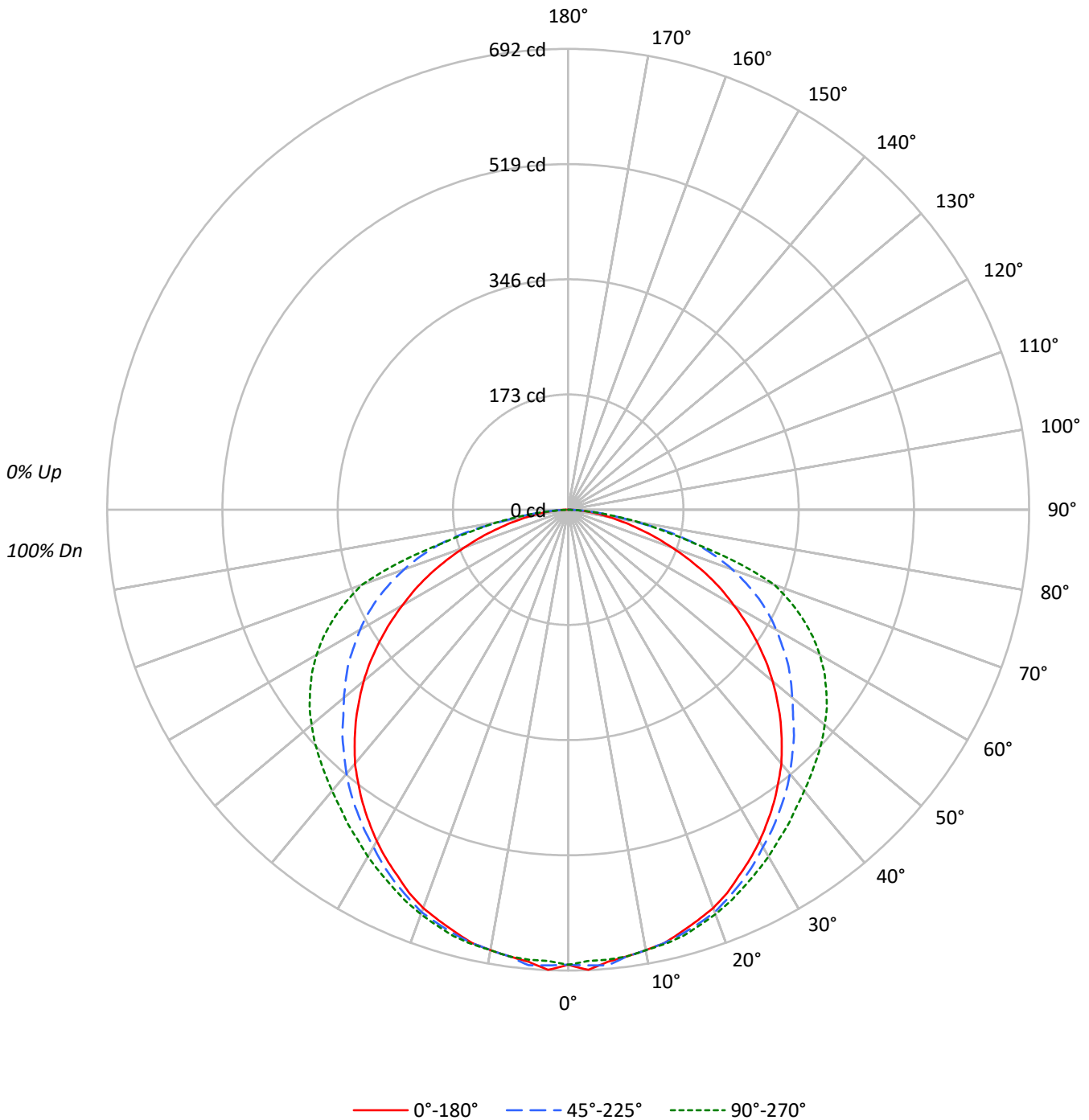
Input Watts (W): 25.668
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P260232

CATALOG NUMBER: 22CZ-LD5-34-SQP-UNV-L83050-W2A1-U-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P260232

CATALOG NUMBER: 22CZ-LD5-34-SQP-UNV-L83050-W2A1-U-3500K

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°	1838	1838	1838
5°	1841	1855	1832
10°	1835	1835	1835
15°	1829	1838	1848
20°	1822	1842	1851
25°	1801	1830	1855
30°	1785	1817	1869
35°	1767	1816	1893
40°	1749	1819	1936
45°	1716	1824	2009
50°	1678	1839	2105
55°	1622	1889	2218
60°	1546	1942	2347
65°	1457	2010	2478
70°	1301	2064	2589
75°	1129	2067	2049
80°	958	1528	1657
85°	824	1031	929



TEST NUMBER: P260232

CATALOG NUMBER: 22CZ-LD5-34-SQP-UNV-L83050-W2A1-U-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.9	3.0
10°-20°	186.3	8.7
20°-30°	283.9	13.2
30°-40°	347.4	16.1
40°-50°	373.8	17.4
50°-60°	362.0	16.8
60°-70°	306.7	14.3
70°-80°	185.4	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°	535.0	24.9
0°-40°	882.4	41.0
0°-60°	1618.2	75.2
0°-90°	2151.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2151.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	683	683	683	683	683	
5°	682	682	687	683	678	65
15°	656	658	660	662	663	185
25°	606	610	616	621	625	280
35°	538	541	553	568	576	336
45°	451	459	479	510	528	348
55°	346	361	403	449	473	309
65°	229	254	316	366	389	225
75°	109	147	199	202	197	117
85°	27	32	33	32	30	30
90°	0	0	0	0	0	



TEST NUMBER: P260232

CATALOG NUMBER: 22CZ-LD5-34-SQP-UNV-L83050-W2A1-U-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	683.2	683.2	683.2	683.2	683.2
2.5°	691.6	689.9	684.9	681.5	678.2
5°	681.5	681.5	686.6	683.2	678.2
7.5°	676.5	676.5	676.5	684.9	676.5
10°	671.5	673.2	671.5	678.2	671.5
12.5°	666.5	666.5	666.5	668.2	668.2
15°	656.5	658.2	659.8	661.5	663.2
17.5°	646.5	648.1	651.5	653.1	654.8
20°	636.4	638.1	643.1	643.1	646.5
22.5°	623.1	623.1	629.8	631.4	636.4
25°	606.4	609.7	616.4	621.4	624.7
27.5°	591.3	594.7	601.4	608.0	613.1
30°	574.6	578.0	584.7	594.7	601.4
32.5°	556.3	559.6	569.6	581.3	588.0
35°	537.9	541.2	552.9	568.0	576.3
37.5°	517.8	522.9	536.2	552.9	562.9
40°	497.8	502.8	517.8	536.2	551.2
42.5°	474.4	481.1	497.8	522.9	539.6
45°	451.0	459.4	479.4	509.5	527.9
47.5°	426.0	434.3	457.7	496.1	516.2
50°	400.9	410.9	439.3	481.1	502.8
52.5°	374.2	384.2	421.0	466.1	489.4
55°	345.8	360.8	402.6	449.4	472.7
57.5°	317.4	334.1	380.9	431.0	456.0
60°	287.3	307.4	360.8	410.9	436.0
62.5°	258.9	280.6	339.1	389.2	414.3
65°	228.9	253.9	315.7	365.8	389.2
67.5°	197.1	228.9	289.0	337.4	360.8
70°	165.4	202.1	262.3	307.4	329.1
72.5°	137.0	175.4	232.2	270.6	270.6
75°	108.6	147.0	198.8	202.1	197.1
77.5°	83.5	120.3	155.4	142.0	145.3
80°	61.8	91.9	98.6	103.6	106.9
82.5°	41.8	61.8	63.5	66.8	66.8
85°	26.7	31.7	33.4	31.7	30.1
87.5°	11.7	13.4	10.0	6.7	5.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)