

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: P260362

Luminaire Tested: **22CZ-LD5-34-SQP-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260362
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-L92765-W2A1-U-5000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1988.0 lumens
Efficiency: N/A
Efficacy: 75.8 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

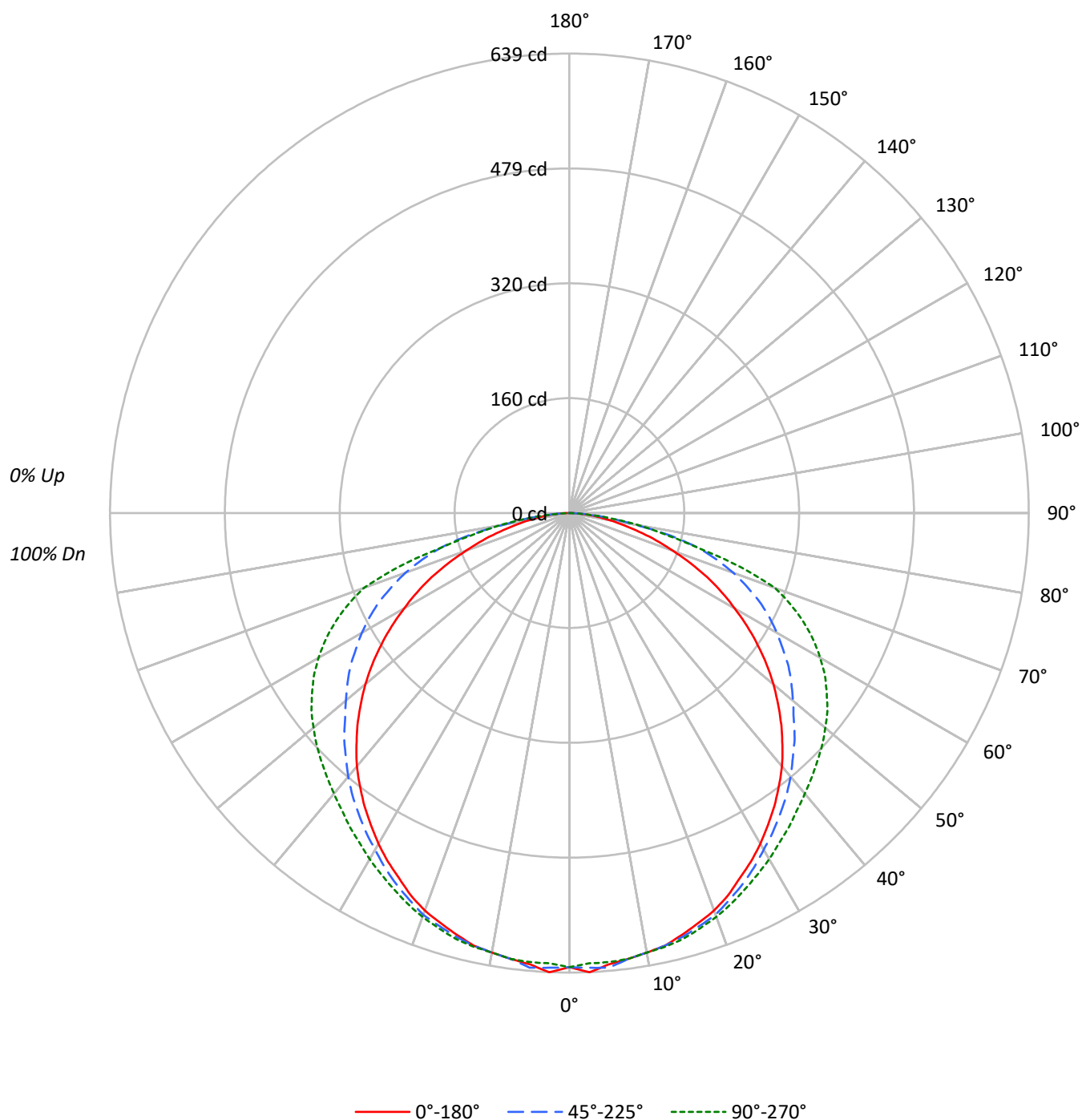
Input Watts (W): 26.226
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1699	1699	1699
5°	1702	1714	1693
10°	1696	1696	1696
15°	1690	1699	1707
20°	1684	1702	1711
25°	1664	1692	1714
30°	1650	1679	1727
35°	1633	1679	1750
40°	1616	1681	1790
45°	1586	1686	1857
50°	1551	1700	1945
55°	1499	1746	2050
60°	1429	1795	2168
65°	1347	1858	2290
70°	1202	1907	2393
75°	1044	1910	1894
80°	885	1412	1531
85°	763	954	858



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.0	3.0
10°-20°	172.2	8.7
20°-30°	262.4	13.2
30°-40°	321.0	16.1
40°-50°	345.4	17.4
50°-60°	334.6	16.8
60°-70°	283.4	14.3
70°-80°	171.3	8.6
80°-90°	37.7	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°	494.5	24.9
0°-40°	815.5	41.0
0°-60°	1495.6	75.2
0°-90°	1988.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1988.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	631	631	631	631	631	
5°	630	630	634	631	627	60
15°	607	608	610	611	613	171
25°	560	564	570	574	577	259
35°	497	500	511	525	533	311
45°	417	425	443	471	488	321
55°	320	334	372	415	437	285
65°	212	235	292	338	360	208
75°	100	136	184	187	182	108
85°	25	29	31	29	28	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	631.4	631.4	631.4	631.4	631.4
2.5°	639.2	637.6	633.0	629.9	626.8
5°	629.9	629.9	634.5	631.4	626.8
7.5°	625.3	625.3	625.3	633.0	625.3
10°	620.6	622.2	620.6	626.8	620.6
12.5°	616.0	616.0	616.0	617.5	617.5
15°	606.7	608.3	609.8	611.4	612.9
17.5°	597.5	599.0	602.1	603.7	605.2
20°	588.2	589.8	594.4	594.4	597.5
22.5°	575.9	575.9	582.0	583.6	588.2
25°	560.4	563.5	569.7	574.3	577.4
27.5°	546.5	549.6	555.8	562.0	566.6
30°	531.1	534.2	540.4	549.6	555.8
32.5°	514.1	517.2	526.5	537.3	543.4
35°	497.1	500.2	511.0	524.9	532.6
37.5°	478.6	483.2	495.6	511.0	520.3
40°	460.1	464.7	478.6	495.6	509.5
42.5°	438.5	444.6	460.1	483.2	498.7
45°	416.8	424.6	443.1	470.9	487.9
47.5°	393.7	401.4	423.0	458.5	477.1
50°	370.5	379.8	406.0	444.6	464.7
52.5°	345.8	355.1	389.1	430.7	452.4
55°	319.6	333.5	372.1	415.3	436.9
57.5°	293.3	308.8	352.0	398.3	421.5
60°	265.5	284.1	333.5	379.8	402.9
62.5°	239.3	259.4	313.4	359.7	382.9
65°	211.5	234.7	291.8	338.1	359.7
67.5°	182.2	211.5	267.1	311.9	333.5
70°	152.8	186.8	242.4	284.1	304.1
72.5°	126.6	162.1	214.6	250.1	250.1
75°	100.4	135.9	183.7	186.8	182.2
77.5°	77.2	111.2	143.6	131.2	134.3
80°	57.1	84.9	91.1	95.7	98.8
82.5°	38.6	57.1	58.7	61.8	61.8
85°	24.7	29.3	30.9	29.3	27.8
87.5°	10.8	12.4	9.3	6.2	4.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)