

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: P260235

Luminaire Tested: **22CZ-LD5-34-SQP-UNV-L83050-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260235
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-5000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2280.0 lumens
Efficiency: N/A
Efficacy: 84.5 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

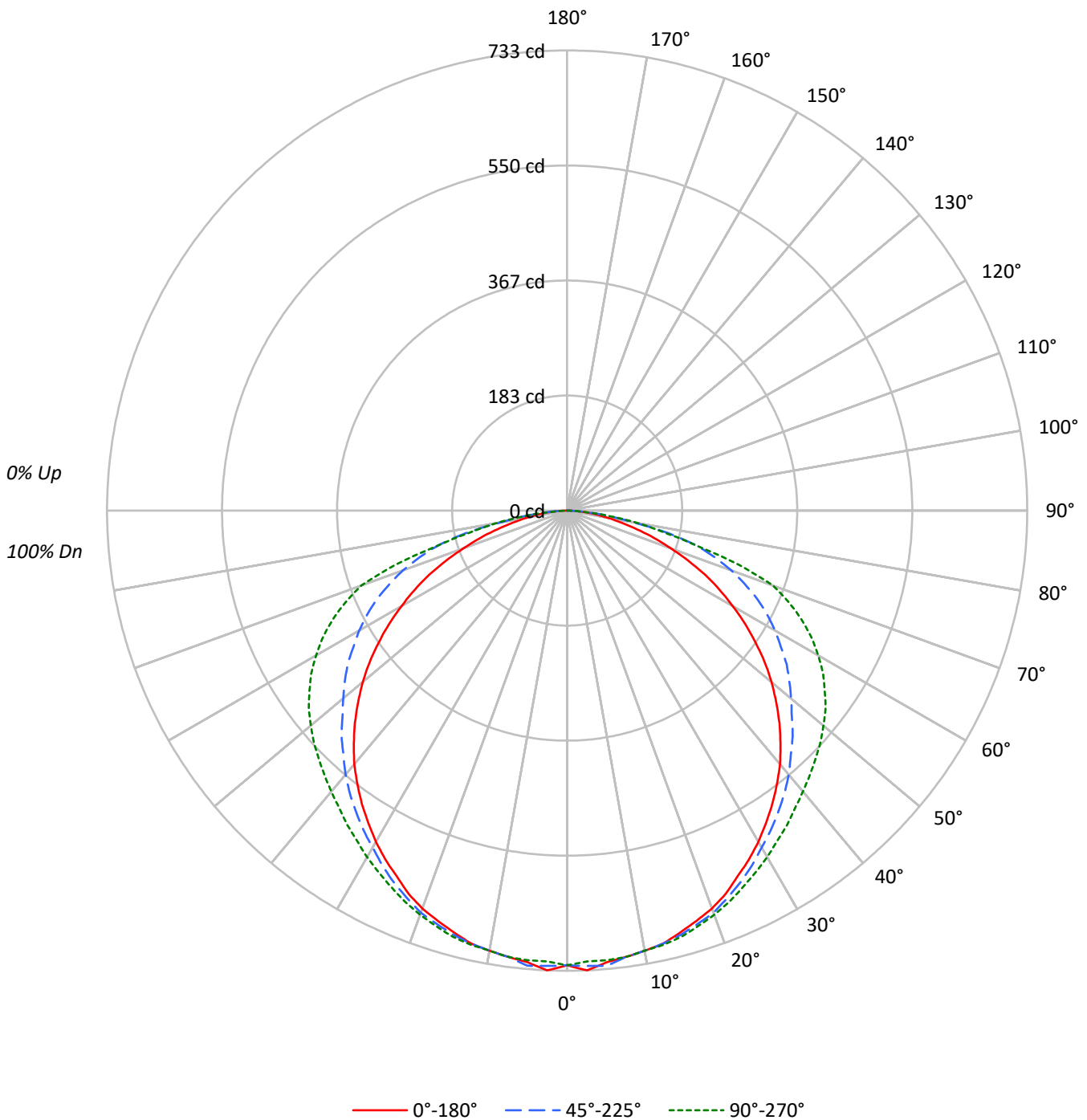
Input Watts (W): 26.97
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1949	1949	1949
5°	1951	1966	1942
10°	1945	1945	1945
15°	1939	1948	1958
20°	1932	1952	1962
25°	1908	1940	1966
30°	1893	1926	1981
35°	1873	1925	2007
40°	1853	1928	2053
45°	1819	1934	2129
50°	1779	1950	2231
55°	1719	2002	2351
60°	1639	2059	2487
65°	1545	2131	2627
70°	1379	2187	2744
75°	1197	2191	2172
80°	1015	1619	1756
85°	874	1093	985



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.8	3.0
10°-20°	197.5	8.7
20°-30°	300.9	13.2
30°-40°	368.2	16.1
40°-50°	396.2	17.4
50°-60°	383.7	16.8
60°-70°	325.1	14.3
70°-80°	196.5	8.6
80°-90°	43.2	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°	567.1	24.9
0°-40°	935.3	41.0
0°-60°	1715.2	75.2
0°-90°	2280.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2280.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	724	724	724	724	724	
5°	722	722	728	724	719	69
15°	696	698	699	701	703	196
25°	643	646	653	659	662	297
35°	570	574	586	602	611	357
45°	478	487	508	540	560	368
55°	366	382	427	476	501	327
65°	243	269	335	388	413	239
75°	115	156	211	214	209	124
85°	28	34	35	34	32	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	724.2	724.2	724.2	724.2	724.2
2.5°	733.0	731.3	726.0	722.4	718.9
5°	722.4	722.4	727.7	724.2	718.9
7.5°	717.1	717.1	717.1	726.0	717.1
10°	711.8	713.6	711.8	718.9	711.8
12.5°	706.5	706.5	706.5	708.3	708.3
15°	695.9	697.6	699.4	701.2	702.9
17.5°	685.2	687.0	690.5	692.3	694.1
20°	674.6	676.4	681.7	681.7	685.2
22.5°	660.4	660.4	667.5	669.3	674.6
25°	642.7	646.3	653.4	658.7	662.2
27.5°	626.8	630.3	637.4	644.5	649.8
30°	609.1	612.6	619.7	630.3	637.4
32.5°	589.6	593.2	603.8	616.2	623.3
35°	570.1	573.7	586.1	602.0	610.9
37.5°	548.9	554.2	568.4	586.1	596.7
40°	527.6	533.0	548.9	568.4	584.3
42.5°	502.9	509.9	527.6	554.2	571.9
45°	478.1	486.9	508.2	540.0	559.5
47.5°	451.5	460.4	485.2	525.9	547.1
50°	425.0	435.6	465.7	509.9	533.0
52.5°	396.6	407.2	446.2	494.0	518.8
55°	366.5	382.5	426.7	476.3	501.1
57.5°	336.4	354.1	403.7	456.8	483.4
60°	304.5	325.8	382.5	435.6	462.1
62.5°	274.4	297.5	359.4	412.6	439.1
65°	242.6	269.1	334.6	387.8	412.6
67.5°	208.9	242.6	306.3	357.7	382.5
70°	175.3	214.2	278.0	325.8	348.8
72.5°	145.2	185.9	246.1	286.8	286.8
75°	115.1	155.8	210.7	214.2	208.9
77.5°	88.5	127.5	164.7	150.5	154.0
80°	65.5	97.4	104.5	109.8	113.3
82.5°	44.3	65.5	67.3	70.8	70.8
85°	28.3	33.6	35.4	33.6	31.9
87.5°	12.4	14.2	10.6	7.1	5.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)