

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: P260364

Luminaire Tested: **22CZ-LD5-34-SQP-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260364
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-5700K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2028.0 lumens
Efficiency: N/A
Efficacy: 76.8 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

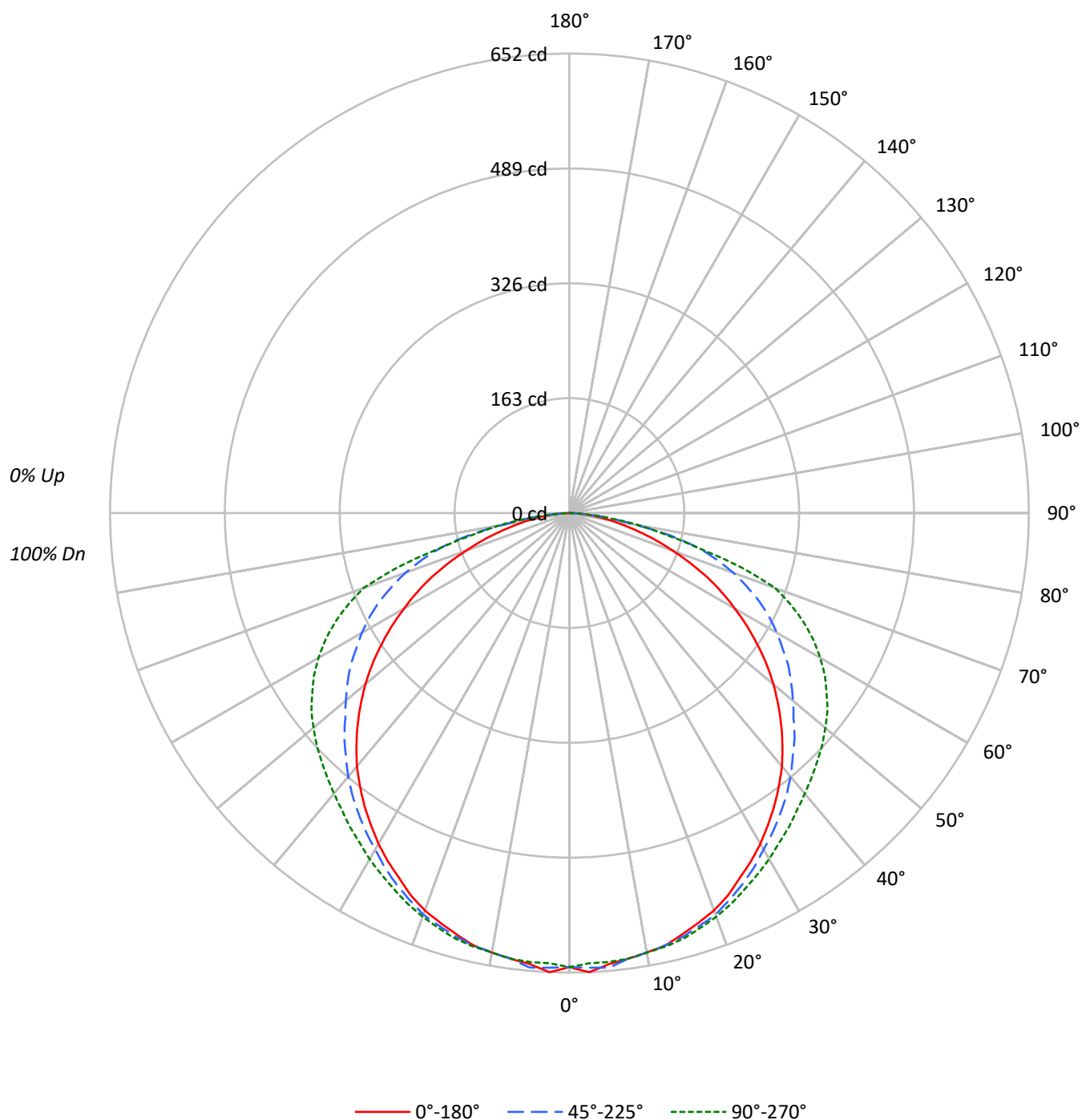
Input Watts (W): 26.412
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58
4	81	68	59	52	79	67	58	52	64	57	51	62	56	50	60	54	50
5	74	61	52	45	72	60	51	44	58	50	44	56	49	43	54	48	43
6	68	55	45	39	66	54	45	39	52	44	38	50	43	38	48	42	37
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1733	1733	1733
5°	1736	1749	1727
10°	1730	1730	1730
15°	1724	1733	1742
20°	1718	1736	1745
25°	1697	1725	1749
30°	1684	1713	1762
35°	1666	1713	1785
40°	1649	1715	1826
45°	1618	1720	1894
50°	1582	1734	1985
55°	1529	1781	2091
60°	1458	1831	2213
65°	1374	1896	2337
70°	1227	1946	2441
75°	1065	1948	1932
80°	903	1440	1562
85°	778	973	874



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.2	3.0
10°-20°	175.6	8.7
20°-30°	267.7	13.2
30°-40°	327.5	16.1
40°-50°	352.4	17.4
50°-60°	341.3	16.8
60°-70°	289.2	14.3
70°-80°	174.8	8.6
80°-90°	38.4	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°	504.4	24.9
0°-40°	832.0	41.0
0°-60°	1525.7	75.2
0°-90°	2028.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2028.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	644	644	644	644	644	
5°	643	643	647	644	639	61
15°	619	620	622	624	625	175
25°	572	575	581	586	589	264
35°	507	510	521	536	543	317
45°	425	433	452	480	498	328
55°	326	340	380	424	446	291
65°	216	239	298	345	367	212
75°	102	139	187	191	186	110
85°	25	30	32	30	28	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	644.1	644.1	644.1	644.1	644.1
2.5°	652.0	650.4	645.7	642.6	639.4
5°	642.6	642.6	647.3	644.1	639.4
7.5°	637.8	637.8	637.8	645.7	637.8
10°	633.1	634.7	633.1	639.4	633.1
12.5°	628.4	628.4	628.4	630.0	630.0
15°	618.9	620.5	622.1	623.7	625.2
17.5°	609.5	611.1	614.2	615.8	617.4
20°	600.0	601.6	606.3	606.3	609.5
22.5°	587.4	587.4	593.7	595.3	600.0
25°	571.7	574.9	581.1	585.9	589.0
27.5°	557.5	560.7	567.0	573.3	578.0
30°	541.8	544.9	551.2	560.7	567.0
32.5°	524.5	527.6	537.1	548.1	554.4
35°	507.1	510.3	521.3	535.5	543.4
37.5°	488.2	493.0	505.6	521.3	530.8
40°	469.3	474.1	488.2	505.6	519.7
42.5°	447.3	453.6	469.3	493.0	508.7
45°	425.2	433.1	452.0	480.4	497.7
47.5°	401.6	409.5	431.5	467.8	486.7
50°	378.0	387.4	414.2	453.6	474.1
52.5°	352.8	362.2	396.9	439.4	461.5
55°	326.0	340.2	379.6	423.7	445.7
57.5°	299.2	315.0	359.1	406.3	430.0
60°	270.9	289.8	340.2	387.4	411.1
62.5°	244.1	264.6	319.7	367.0	390.6
65°	215.8	239.4	297.7	344.9	367.0
67.5°	185.8	215.8	272.5	318.1	340.2
70°	155.9	190.6	247.3	289.8	310.3
72.5°	129.1	165.4	218.9	255.1	255.1
75°	102.4	138.6	187.4	190.6	185.8
77.5°	78.7	113.4	146.5	133.9	137.0
80°	58.3	86.6	92.9	97.6	100.8
82.5°	39.4	58.3	59.8	63.0	63.0
85°	25.2	29.9	31.5	29.9	28.3
87.5°	11.0	12.6	9.4	6.3	4.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)