

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: P260400

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260400
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25714)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-34-RDP-UNV-L83050-W2A1-U-3500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2532.0 lumens
Efficiency: N/A
Efficacy: 98.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

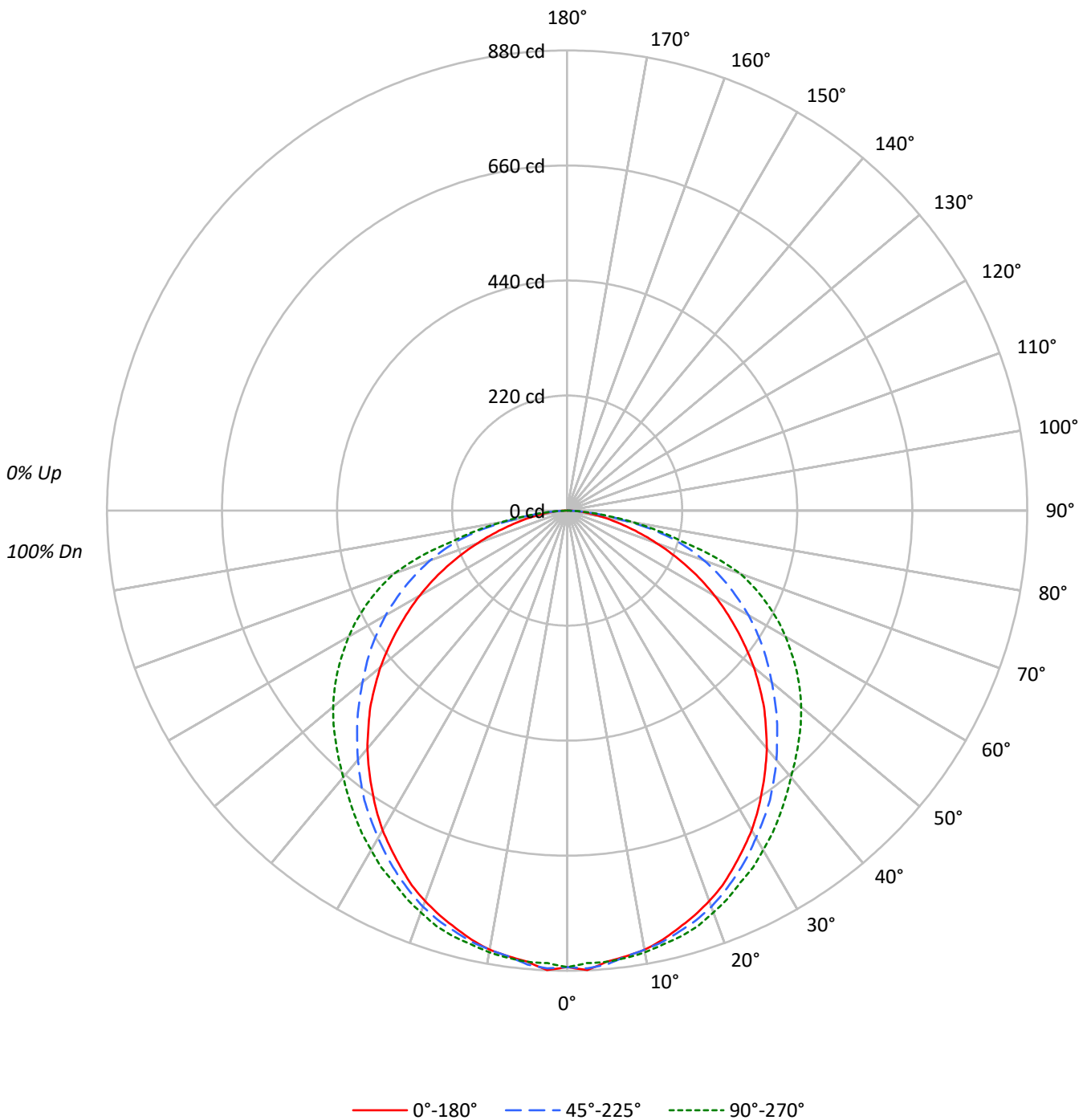
Input Watts (W): 25.668
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	77	73	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	30	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2349	2349	2349
5°	2340	2354	2340
10°	2331	2331	2344
15°	2302	2320	2348
20°	2275	2309	2342
25°	2235	2280	2329
30°	2194	2246	2329
35°	2138	2221	2330
40°	2087	2187	2340
45°	2026	2160	2382
50°	1950	2138	2446
55°	1856	2145	2514
60°	1752	2156	2596
65°	1615	2168	2689
70°	1431	2193	2771
75°	1214	2187	2360
80°	1009	1759	1967
85°	877	1186	1133



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.5	3.3
10°-20°	235.3	9.3
20°-30°	353.9	14.0
30°-40°	424.1	16.8
40°-50°	442.3	17.5
50°-60°	411.8	16.3
60°-70°	334.4	13.2
70°-80°	201.5	8.0
80°-90°	46.2	1.8
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°	671.7	26.5
0°-40°	1095.8	43.3
0°-60°	1949.9	77.0
0°-90°	2532.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2532.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	873	873	873	873	873	
5°	866	866	871	873	866	82
15°	826	830	833	838	843	233
25°	753	758	768	778	784	347
35°	651	659	676	696	709	407
45°	532	542	568	604	626	410
55°	396	412	457	507	536	354
65°	254	280	340	394	422	251
75°	117	155	210	224	227	126
85°	28	35	38	37	37	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	872.9	872.9	872.9	872.9	872.9
2.5°	879.6	877.9	876.3	871.3	866.3
5°	866.3	866.3	871.3	872.9	866.3
7.5°	859.6	859.6	859.6	866.3	862.9
10°	852.9	852.9	852.9	857.9	857.9
12.5°	841.2	842.9	844.6	846.2	849.6
15°	826.2	829.5	832.9	837.9	842.9
17.5°	811.2	814.5	821.2	826.2	832.9
20°	794.5	797.8	806.2	811.2	817.9
22.5°	776.1	777.8	787.8	794.5	802.8
25°	752.8	757.8	767.8	777.8	784.5
27.5°	729.4	734.4	746.1	759.4	769.5
30°	706.0	711.0	722.7	739.4	749.4
32.5°	679.3	686.0	699.4	719.4	731.1
35°	650.9	659.3	676.0	696.0	709.4
37.5°	622.6	630.9	649.3	674.3	687.7
40°	594.2	602.5	622.6	649.3	666.0
42.5°	562.5	572.5	594.2	625.9	645.9
45°	532.4	542.5	567.5	604.2	625.9
47.5°	499.1	510.7	539.1	580.8	605.9
50°	465.7	479.0	510.7	557.5	584.2
52.5°	430.6	445.6	484.0	532.4	560.8
55°	395.6	412.3	457.3	507.4	535.8
57.5°	360.5	378.9	429.0	480.7	509.1
60°	325.5	345.5	400.6	454.0	482.4
62.5°	290.4	312.1	370.5	424.0	454.0
65°	253.7	280.4	340.5	393.9	422.3
67.5°	217.0	248.7	310.5	362.2	388.9
70°	181.9	217.0	278.7	327.1	352.2
72.5°	148.5	185.3	245.4	287.1	297.1
75°	116.8	155.2	210.3	223.7	227.0
77.5°	90.1	125.2	166.9	170.2	178.6
80°	65.1	95.1	113.5	123.5	126.9
82.5°	45.1	65.1	75.1	76.8	78.4
85°	28.4	35.1	38.4	36.7	36.7
87.5°	15.0	13.4	11.7	8.3	6.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)