

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: P260440

Luminaire Tested: **22CZ-LD5-44-RDP-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260440
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-LD5-44-RDP-UNV-L93050-W2A1-U-3500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2768.0 lumens
Efficiency: N/A
Efficacy: 78.5 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

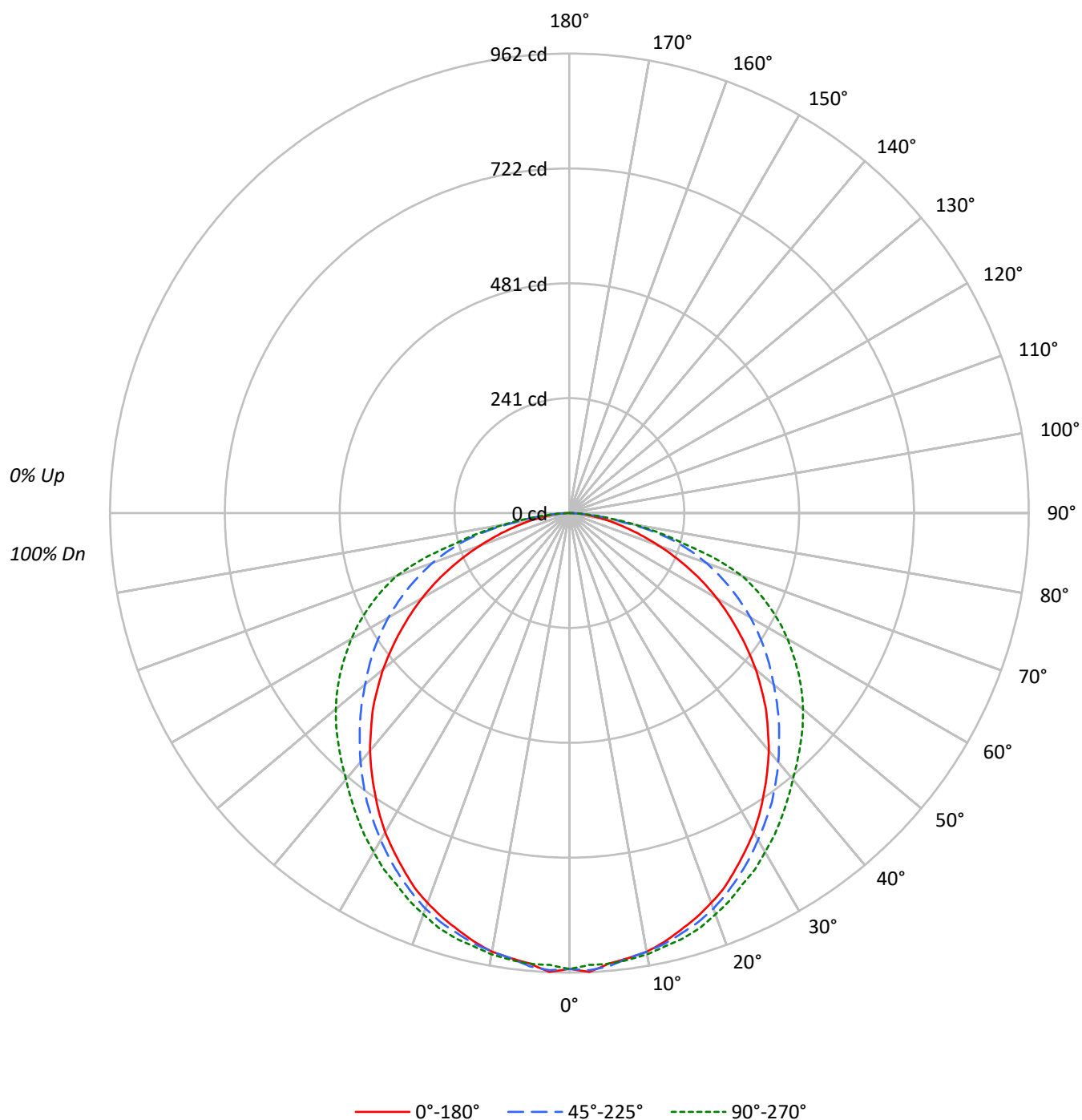
Input Watts (W): 35.253324
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
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	104	99	95	106	101	97	94		97	94	91		93	90	88		89	87	85
2	98	90	83	77	96	88	81	76		84	79	74		81	77	73		78	74	71
3	89	79	70	64	87	77	69	63		74	67	62		71	66	61		69	64	60
4	82	69	60	54	79	68	60	53		66	58	52		63	57	52		61	56	51
5	75	62	53	46	73	61	52	46		59	51	45		57	50	45		55	49	44
6	69	56	47	40	67	55	46	40		53	45	40		51	44	39		50	44	39
7	64	50	42	35	62	50	41	35		48	40	35		47	40	35		45	39	34
8	60	46	37	31	58	45	37	31		44	37	31		43	36	31		42	35	31
9	56	42	34	28	54	42	34	28		40	33	28		39	33	28		38	32	28
10	52	39	31	26	51	38	31	26		37	30	25		36	30	25		36	30	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2568	2568	2568
5°	2558	2573	2558
10°	2548	2548	2563
15°	2516	2537	2567
20°	2487	2524	2560
25°	2443	2492	2546
30°	2398	2455	2546
35°	2338	2428	2548
40°	2282	2391	2557
45°	2215	2361	2604
50°	2131	2337	2673
55°	2029	2346	2748
60°	1915	2357	2838
65°	1766	2370	2939
70°	1565	2397	3029
75°	1328	2390	2581
80°	1103	1923	2149
85°	957	1297	1238



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.2	3.3
10°-20°	257.2	9.3
20°-30°	386.9	14.0
30°-40°	463.7	16.8
40°-50°	483.5	17.5
50°-60°	450.2	16.3
60°-70°	365.5	13.2
70°-80°	220.3	8.0
80°-90°	50.5	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°	734.3	26.5
0°-40°	1197.9	43.3
0°-60°	2131.7	77.0
0°-90°	2768.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2768.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	954	954	954	954	954	
5°	947	947	952	954	947	90
15°	903	907	910	916	922	255
25°	823	828	839	850	858	379
35°	712	721	739	761	776	445
45°	582	593	620	660	684	448
55°	432	451	500	555	586	387
65°	277	306	372	431	462	274
75°	128	170	230	244	248	138
85°	31	38	42	40	40	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	954.3	954.3	954.3	954.3	954.3
2.5°	961.6	959.8	958.0	952.5	947.0
5°	947.0	947.0	952.5	954.3	947.0
7.5°	939.7	939.7	939.7	947.0	943.4
10°	932.4	932.4	932.4	937.9	937.9
12.5°	919.6	921.5	923.3	925.1	928.8
15°	903.2	906.9	910.5	916.0	921.5
17.5°	886.8	890.4	897.7	903.2	910.5
20°	868.5	872.2	881.3	886.8	894.1
22.5°	848.5	850.3	861.2	868.5	877.7
25°	822.9	828.4	839.3	850.3	857.6
27.5°	797.4	802.9	815.6	830.2	841.2
30°	771.8	777.3	790.1	808.3	819.3
32.5°	742.6	749.9	764.5	786.4	799.2
35°	711.6	720.7	739.0	760.9	775.5
37.5°	680.6	689.7	709.8	737.2	751.8
40°	649.6	658.7	680.6	709.8	728.0
42.5°	614.9	625.9	649.6	684.3	706.1
45°	582.1	593.0	620.4	660.5	684.3
47.5°	545.6	558.3	589.4	635.0	662.4
50°	509.1	523.7	558.3	609.4	638.6
52.5°	470.8	487.2	529.2	582.1	613.1
55°	432.4	450.7	500.0	554.7	585.7
57.5°	394.1	414.2	468.9	525.5	556.5
60°	355.8	377.7	437.9	496.3	527.3
62.5°	317.5	341.2	405.1	463.5	496.3
65°	277.3	306.5	372.2	430.6	461.6
67.5°	237.2	271.9	339.4	396.0	425.1
70°	198.9	237.2	304.7	357.6	385.0
72.5°	162.4	202.5	268.2	313.8	324.8
75°	127.7	169.7	229.9	244.5	248.2
77.5°	98.5	136.9	182.5	186.1	195.2
80°	71.2	104.0	124.1	135.0	138.7
82.5°	49.3	71.2	82.1	83.9	85.8
85°	31.0	38.3	42.0	40.1	40.1
87.5°	16.4	14.6	12.8	9.1	7.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)