

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: P230883

Luminaire Tested: **22CZ-LD5-44SE-RDP-UNV-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230883
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-LD5-44SE-RDP-UNV-L950-CD1-U
Description: CRUZE 2x2 LED TROFFER
WITH RDP LENS
Light Source: (56) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2766.0 lumens
Efficiency: N/A
Efficacy: 69.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

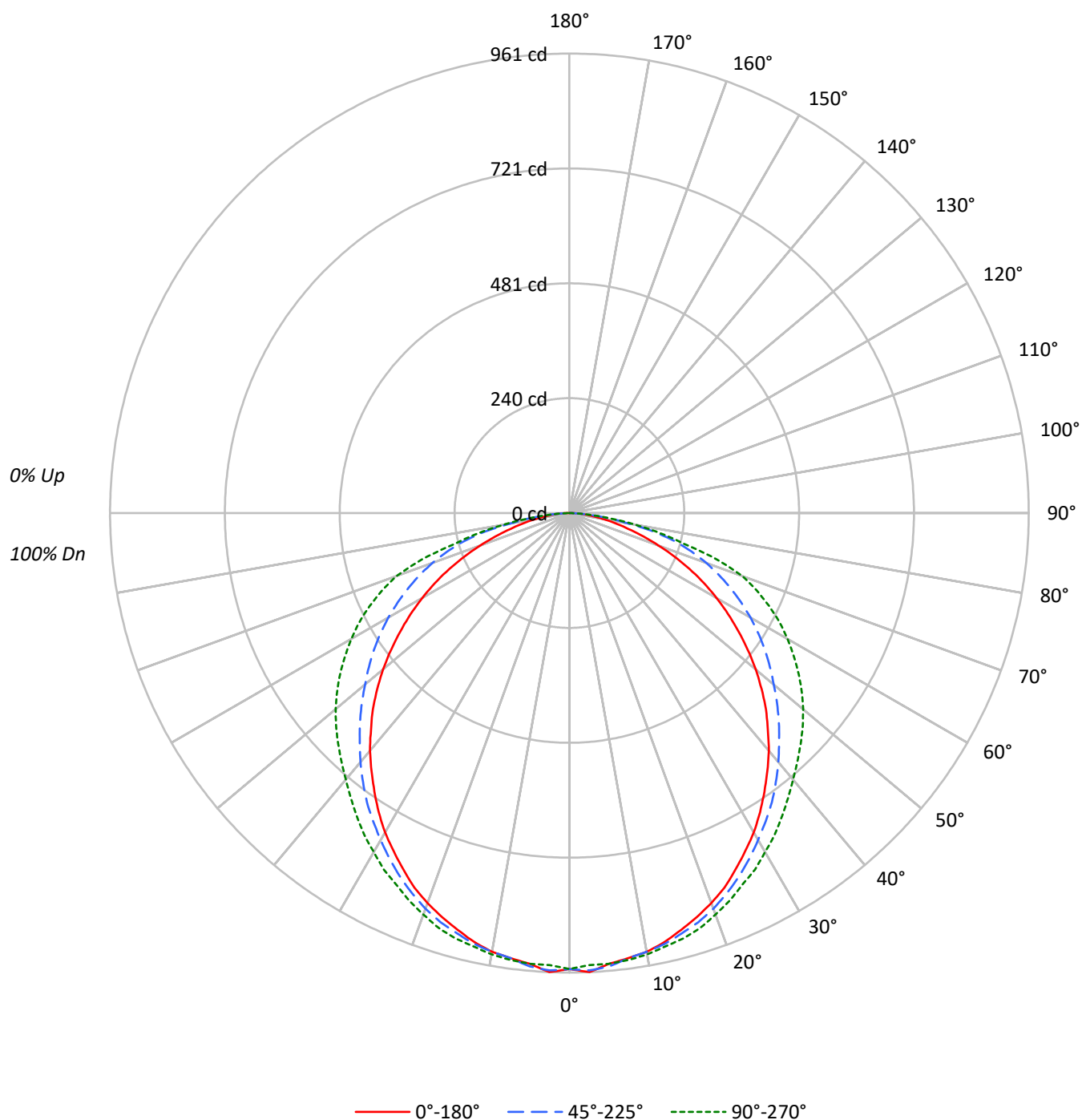
Input Watts (W): 40
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2566	2566	2566
5°	2556	2571	2556
10°	2546	2546	2561
15°	2515	2535	2565
20°	2485	2522	2558
25°	2442	2490	2545
30°	2397	2453	2544
35°	2336	2426	2546
40°	2280	2389	2556
45°	2213	2359	2602
50°	2130	2336	2672
55°	2027	2344	2746
60°	1914	2355	2836
65°	1764	2369	2937
70°	1563	2396	3027
75°	1327	2388	2578
80°	1102	1922	2148
85°	957	1294	1238



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.1	3.3
10°-20°	257.0	9.3
20°-30°	386.6	14.0
30°-40°	463.3	16.8
40°-50°	483.2	17.5
50°-60°	449.9	16.3
60°-70°	365.3	13.2
70°-80°	220.1	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°	733.7	26.5
0°-40°	1197.1	43.3
0°-60°	2130.1	77.0
0°-90°	2766.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2766.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	954	954	954	954	954	
5°	946	946	952	954	946	90
15°	903	906	910	915	921	255
25°	822	828	839	850	857	379
35°	711	720	738	760	775	445
45°	582	593	620	660	684	448
55°	432	450	500	554	585	386
65°	277	306	372	430	461	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°	953.6	953.6	953.6	953.6	953.6
2.5°	960.9	959.1	957.3	951.8	946.3
5°	946.3	946.3	951.8	953.6	946.3
7.5°	939.0	939.0	939.0	946.3	942.7
10°	931.7	931.7	931.7	937.2	937.2
12.5°	919.0	920.8	922.6	924.4	928.1
15°	902.6	906.2	909.9	915.3	920.8
17.5°	886.1	889.8	897.1	902.6	909.9
20°	867.9	871.6	880.7	886.1	893.4
22.5°	847.9	849.7	860.6	867.9	877.0
25°	822.3	827.8	838.7	849.7	857.0
27.5°	796.8	802.3	815.0	829.6	840.6
30°	771.3	776.7	789.5	807.7	818.7
32.5°	742.1	749.4	764.0	785.9	798.6
35°	711.1	720.2	738.5	760.3	774.9
37.5°	680.1	689.2	709.3	736.6	751.2
40°	649.1	658.2	680.1	709.3	727.5
42.5°	614.5	625.4	649.1	683.8	705.6
45°	581.6	592.6	619.9	660.1	683.8
47.5°	545.2	557.9	588.9	634.5	661.9
50°	508.7	523.3	557.9	609.0	638.2
52.5°	470.4	486.8	528.8	581.6	612.6
55°	432.1	450.4	499.6	554.3	585.3
57.5°	393.8	413.9	468.6	525.1	556.1
60°	355.6	377.4	437.6	496.0	526.9
62.5°	317.3	341.0	404.8	463.1	496.0
65°	277.1	306.3	372.0	430.3	461.3
67.5°	237.0	271.7	339.1	395.7	424.8
70°	198.7	237.0	304.5	357.4	384.7
72.5°	162.3	202.4	268.0	313.6	324.6
75°	127.6	169.6	229.7	244.3	248.0
77.5°	98.5	136.8	182.3	186.0	195.1
80°	71.1	103.9	124.0	134.9	138.6
82.5°	49.2	71.1	82.1	83.9	85.7
85°	31.0	38.3	41.9	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)