

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: P260442

Luminaire Tested: **22CZ-LD5-44-RDP-UNV-L93050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260442
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-4500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3041.0 lumens
Efficiency: N/A
Efficacy: 84.4 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

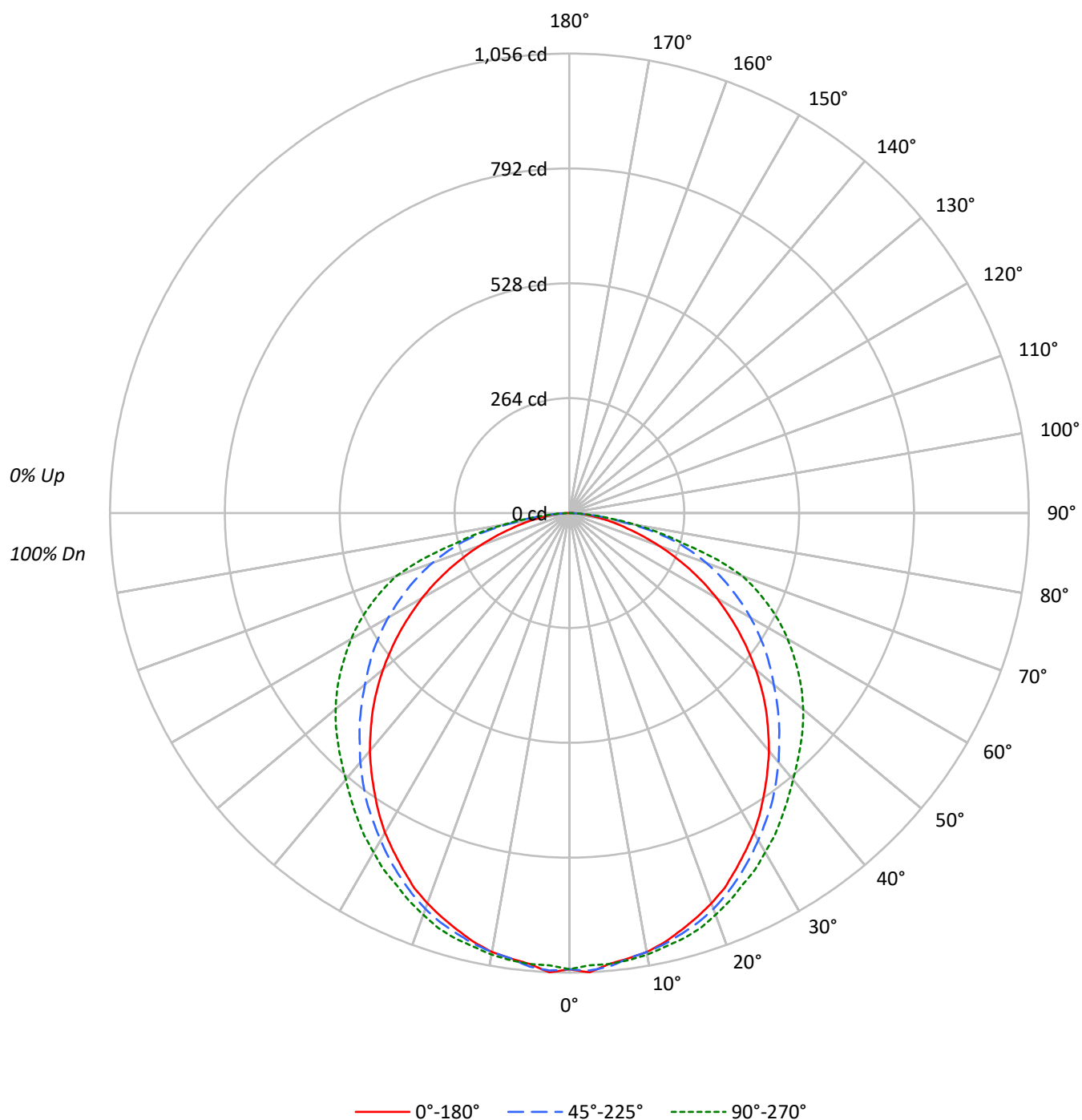
Input Watts (W): 36.049032
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2821	2821	2821
5°	2810	2827	2810
10°	2799	2799	2816
15°	2764	2787	2820
20°	2733	2773	2813
25°	2684	2738	2798
30°	2635	2697	2797
35°	2568	2667	2799
40°	2507	2627	2810
45°	2434	2594	2861
50°	2341	2568	2937
55°	2229	2577	3019
60°	2104	2589	3118
65°	1940	2604	3230
70°	1719	2634	3328
75°	1459	2626	2834
80°	1212	2112	2362
85°	1053	1423	1362



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.1	3.3
10°-20°	282.5	9.3
20°-30°	425.1	14.0
30°-40°	509.4	16.8
40°-50°	531.2	17.5
50°-60°	494.6	16.3
60°-70°	401.6	13.2
70°-80°	242.0	8.0
80°-90°	55.5	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°	806.7	26.5
0°-40°	1316.1	43.3
0°-60°	2341.9	77.0
0°-90°	3041.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3041.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1048	1048	1048	1048	1048	
5°	1040	1040	1046	1048	1040	99
15°	992	996	1000	1006	1012	280
25°	904	910	922	934	942	417
35°	782	792	812	836	852	489
45°	640	652	682	726	752	492
55°	475	495	549	609	644	425
65°	305	337	409	473	507	301
75°	140	186	253	269	273	152
85°	34	42	46	44	44	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1048.4	1048.4	1048.4	1048.4	1048.4
2.5°	1056.4	1054.4	1052.4	1046.4	1040.4
5°	1040.4	1040.4	1046.4	1048.4	1040.4
7.5°	1032.4	1032.4	1032.4	1040.4	1036.4
10°	1024.4	1024.4	1024.4	1030.4	1030.4
12.5°	1010.3	1012.3	1014.3	1016.3	1020.4
15°	992.3	996.3	1000.3	1006.3	1012.3
17.5°	974.3	978.3	986.3	992.3	1000.3
20°	954.2	958.2	968.2	974.3	982.3
22.5°	932.2	934.2	946.2	954.2	964.2
25°	904.1	910.1	922.1	934.2	942.2
27.5°	876.0	882.0	896.1	912.1	924.1
30°	848.0	854.0	868.0	888.1	900.1
32.5°	815.9	823.9	839.9	864.0	878.0
35°	781.8	791.8	811.9	835.9	852.0
37.5°	747.7	757.8	779.8	809.9	825.9
40°	713.6	723.7	747.7	779.8	799.8
42.5°	675.6	687.6	713.6	751.7	775.8
45°	639.5	651.5	681.6	725.7	751.7
47.5°	599.4	613.4	647.5	697.6	727.7
50°	559.3	575.3	613.4	669.5	701.6
52.5°	517.2	535.2	581.3	639.5	673.6
55°	475.1	495.1	549.3	609.4	643.5
57.5°	433.0	455.1	515.2	577.3	611.4
60°	390.9	415.0	481.1	545.3	579.3
62.5°	348.8	374.9	445.0	509.2	545.3
65°	304.7	336.8	408.9	473.1	507.2
67.5°	260.6	298.7	372.9	435.0	467.1
70°	218.5	260.6	334.8	392.9	423.0
72.5°	178.4	222.5	294.7	344.8	356.8
75°	140.3	186.4	252.6	268.6	272.6
77.5°	108.3	150.3	200.5	204.5	214.5
80°	78.2	114.3	136.3	148.3	152.4
82.5°	54.1	78.2	90.2	92.2	94.2
85°	34.1	42.1	46.1	44.1	44.1
87.5°	18.0	16.0	14.0	10.0	8.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)