

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: P260547

Luminaire Tested: **22CZ-LD5-44-RDP-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260547
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-L92765-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: 2950.0 lumens
Efficiency: N/A
Efficacy: 83.7 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

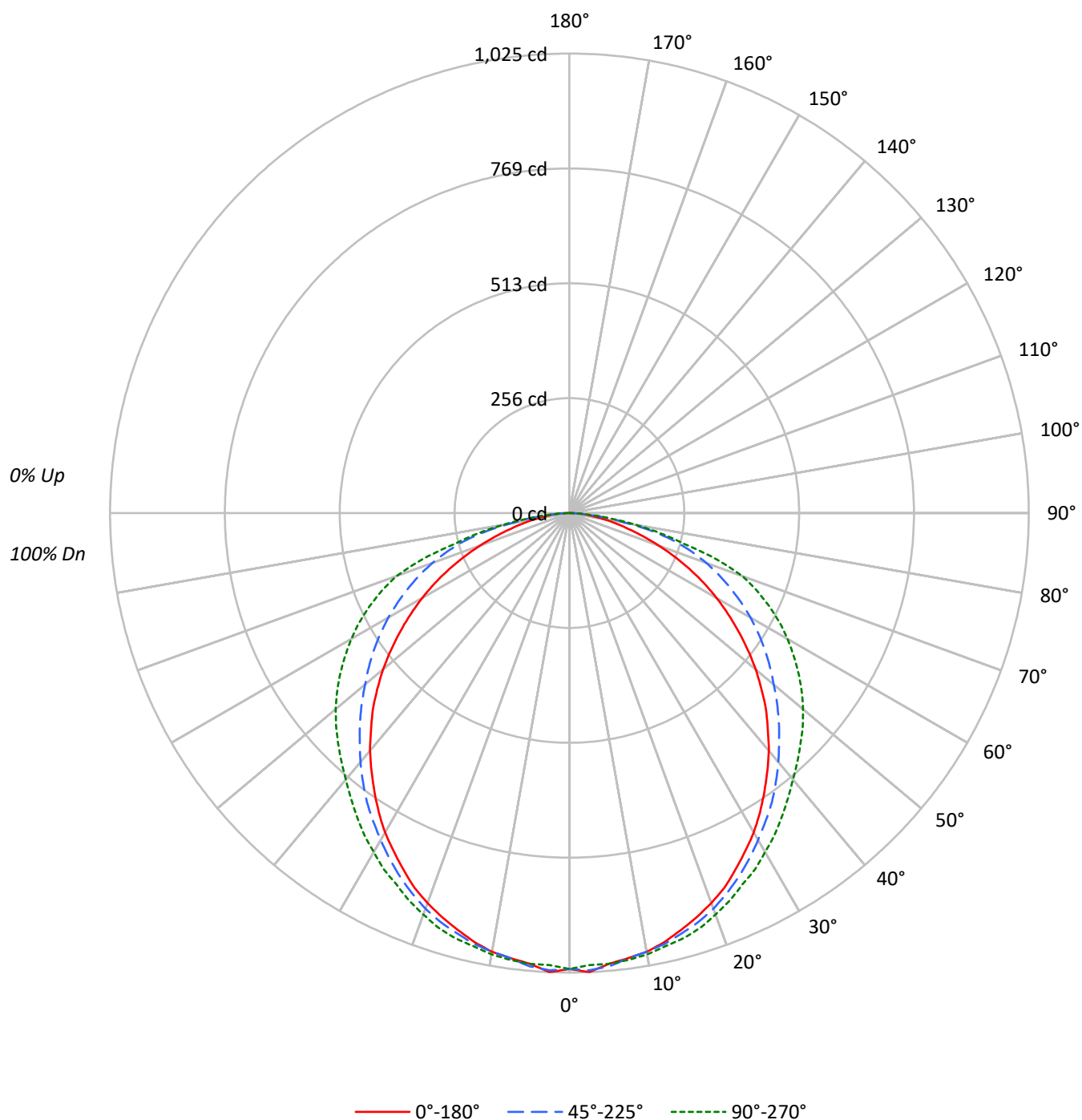
Input Watts (W): 35.247
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2737	2737	2737
5°	2726	2742	2726
10°	2715	2715	2731
15°	2682	2703	2736
20°	2651	2690	2729
25°	2604	2656	2714
30°	2556	2616	2713
35°	2491	2587	2715
40°	2432	2548	2726
45°	2361	2516	2775
50°	2272	2491	2849
55°	2162	2500	2928
60°	2041	2512	3025
65°	1882	2526	3133
70°	1668	2555	3228
75°	1415	2547	2750
80°	1175	2049	2290
85°	1022	1380	1321



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.1	3.3
10°-20°	274.1	9.3
20°-30°	412.4	14.0
30°-40°	494.2	16.8
40°-50°	515.3	17.5
50°-60°	479.8	16.3
60°-70°	389.6	13.2
70°-80°	234.8	8.0
80°-90°	53.8	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°	782.5	26.5
0°-40°	1276.7	43.3
0°-60°	2271.8	77.0
0°-90°	2950.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2950.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1017	1017	1017	1017	1017	
5°	1009	1009	1015	1017	1009	96
15°	963	966	970	976	982	272
25°	877	883	894	906	914	404
35°	758	768	788	811	826	475
45°	620	632	661	704	729	478
55°	461	480	533	591	624	412
65°	296	327	397	459	492	292
75°	136	181	245	261	264	147
85°	33	41	45	43	43	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1017.0	1017.0	1017.0	1017.0	1017.0
2.5°	1024.8	1022.9	1020.9	1015.1	1009.3
5°	1009.3	1009.3	1015.1	1017.0	1009.3
7.5°	1001.5	1001.5	1001.5	1009.3	1005.4
10°	993.7	993.7	993.7	999.5	999.5
12.5°	980.1	982.0	984.0	985.9	989.8
15°	962.6	966.5	970.4	976.2	982.0
17.5°	945.1	949.0	956.8	962.6	970.4
20°	925.7	929.5	939.3	945.1	952.9
22.5°	904.3	906.2	917.9	925.7	935.4
25°	877.0	882.9	894.5	906.2	914.0
27.5°	849.8	855.6	869.3	884.8	896.5
30°	822.6	828.4	842.0	861.5	873.1
32.5°	791.5	799.2	814.8	838.1	851.8
35°	758.4	768.1	787.6	810.9	826.5
37.5°	725.4	735.1	756.5	785.6	801.2
40°	692.3	702.0	725.4	756.5	775.9
42.5°	655.3	667.0	692.3	729.2	752.6
45°	620.3	632.0	661.2	704.0	729.2
47.5°	581.4	595.1	628.1	676.7	705.9
50°	542.6	558.1	595.1	649.5	680.6
52.5°	501.7	519.2	563.9	620.3	653.4
55°	460.9	480.3	532.8	591.2	624.2
57.5°	420.0	441.4	499.8	560.1	593.1
60°	379.2	402.5	466.7	528.9	562.0
62.5°	338.4	363.6	431.7	493.9	528.9
65°	295.6	326.7	396.7	458.9	492.0
67.5°	252.8	289.8	361.7	422.0	453.1
70°	212.0	252.8	324.8	381.2	410.3
72.5°	173.1	215.9	285.9	334.5	346.1
75°	136.1	180.9	245.0	260.6	264.5
77.5°	105.0	145.8	194.5	198.4	208.1
80°	75.8	110.8	132.2	143.9	147.8
82.5°	52.5	75.8	87.5	89.5	91.4
85°	33.1	40.8	44.7	42.8	42.8
87.5°	17.5	15.6	13.6	9.7	7.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)