

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: P260549

Luminaire Tested: **22CZ-LD5-44-RDP-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260549
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-5500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3056.0 lumens
Efficiency: N/A
Efficacy: 86.0 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

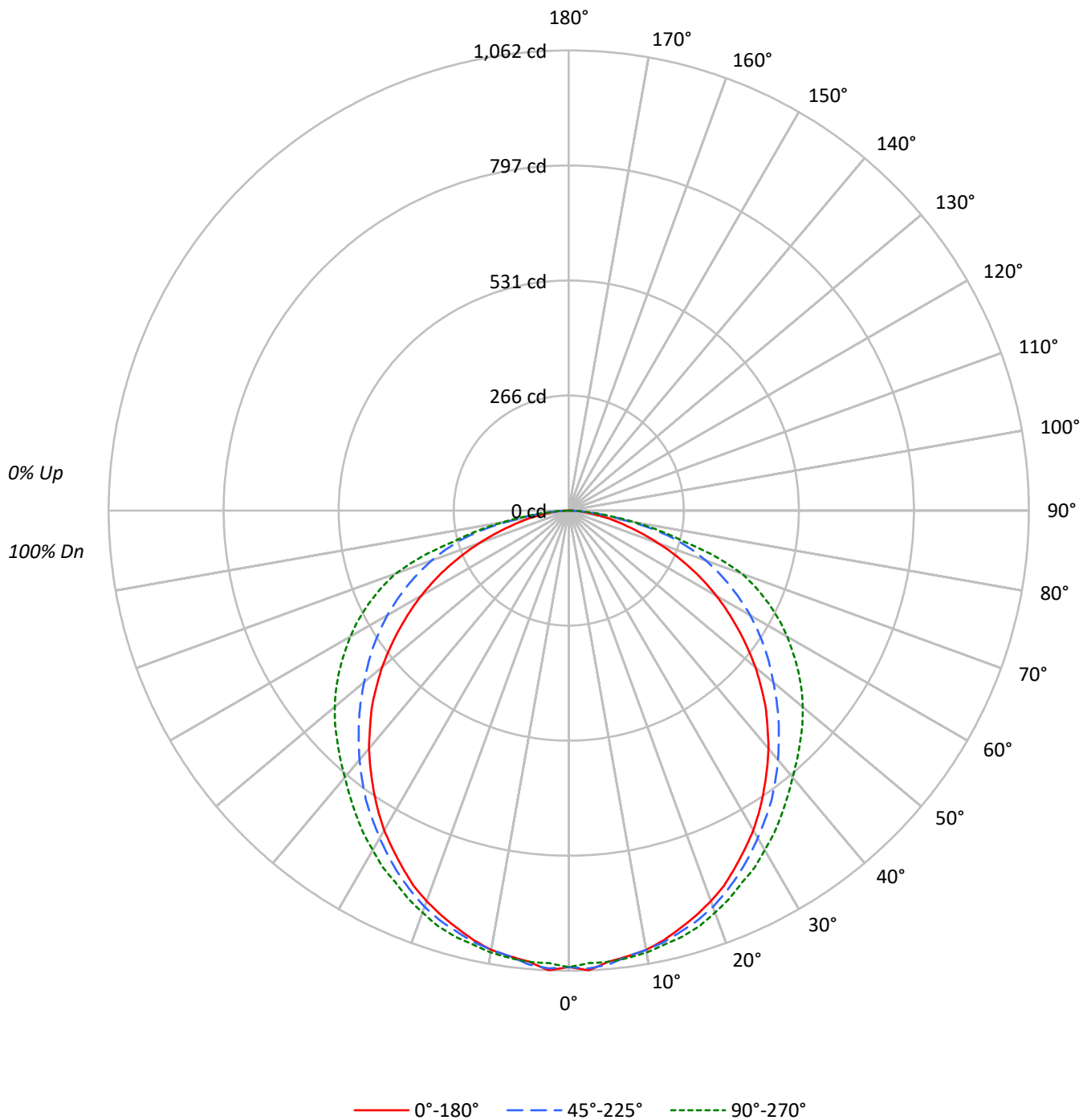
Input Watts (W): 35.526
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2835	2835	2835
5°	2824	2841	2824
10°	2813	2813	2829
15°	2778	2800	2834
20°	2746	2786	2827
25°	2697	2752	2811
30°	2648	2710	2811
35°	2581	2680	2813
40°	2519	2640	2824
45°	2445	2606	2875
50°	2353	2581	2952
55°	2240	2590	3034
60°	2114	2602	3133
65°	1950	2617	3245
70°	1728	2647	3345
75°	1466	2639	2849
80°	1218	2123	2373
85°	1056	1430	1368



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.5	3.3
10°-20°	283.9	9.3
20°-30°	427.2	14.0
30°-40°	511.9	16.8
40°-50°	533.8	17.5
50°-60°	497.0	16.3
60°-70°	403.6	13.2
70°-80°	243.2	8.0
80°-90°	55.8	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°	810.7	26.5
0°-40°	1322.6	43.3
0°-60°	2353.4	77.0
0°-90°	3056.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3056.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1054	1054	1054	1054	1054	
5°	1046	1046	1052	1054	1046	99
15°	997	1001	1005	1011	1017	281
25°	908	915	927	939	947	419
35°	786	796	816	840	856	492
45°	643	655	685	729	755	495
55°	477	498	552	612	647	427
65°	306	338	411	475	510	303
75°	141	187	254	270	274	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°	1053.6	1053.6	1053.6	1053.6	1053.6
2.5°	1061.7	1059.6	1057.6	1051.6	1045.5
5°	1045.5	1045.5	1051.6	1053.6	1045.5
7.5°	1037.5	1037.5	1037.5	1045.5	1041.5
10°	1029.4	1029.4	1029.4	1035.5	1035.5
12.5°	1015.3	1017.3	1019.3	1021.4	1025.4
15°	997.2	1001.2	1005.2	1011.3	1017.3
17.5°	979.1	983.1	991.1	997.2	1005.2
20°	958.9	962.9	973.0	979.1	987.1
22.5°	936.8	938.8	950.9	958.9	969.0
25°	908.5	914.6	926.7	938.8	946.8
27.5°	880.3	886.4	900.5	916.6	928.7
30°	852.1	858.2	872.3	892.4	904.5
32.5°	819.9	828.0	844.1	868.3	882.4
35°	785.7	795.7	815.9	840.1	856.2
37.5°	751.4	761.5	783.6	813.9	830.0
40°	717.2	727.2	751.4	783.6	803.8
42.5°	678.9	691.0	717.2	755.4	779.6
45°	642.6	654.7	684.9	729.3	755.4
47.5°	602.3	616.4	650.7	701.1	731.3
50°	562.1	578.2	616.4	672.8	705.1
52.5°	519.7	537.9	584.2	642.6	676.9
55°	477.4	497.6	552.0	612.4	646.7
57.5°	435.1	457.3	517.7	580.2	614.4
60°	392.8	417.0	483.5	547.9	582.2
62.5°	350.5	376.7	447.2	511.7	547.9
65°	306.2	338.4	411.0	475.4	509.7
67.5°	261.9	300.2	374.7	437.2	469.4
70°	219.6	261.9	336.4	394.8	425.1
72.5°	179.3	223.6	296.1	346.5	358.6
75°	141.0	187.4	253.8	269.9	274.0
77.5°	108.8	151.1	201.5	205.5	215.6
80°	78.6	114.8	137.0	149.1	153.1
82.5°	54.4	78.6	90.7	92.7	94.7
85°	34.2	42.3	46.3	44.3	44.3
87.5°	18.1	16.1	14.1	10.1	8.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)