

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: P260548

Luminaire Tested: **22CZ-LD5-44-RDP-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260548
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-5000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3010.0 lumens
Efficiency: N/A
Efficacy: 84.9 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

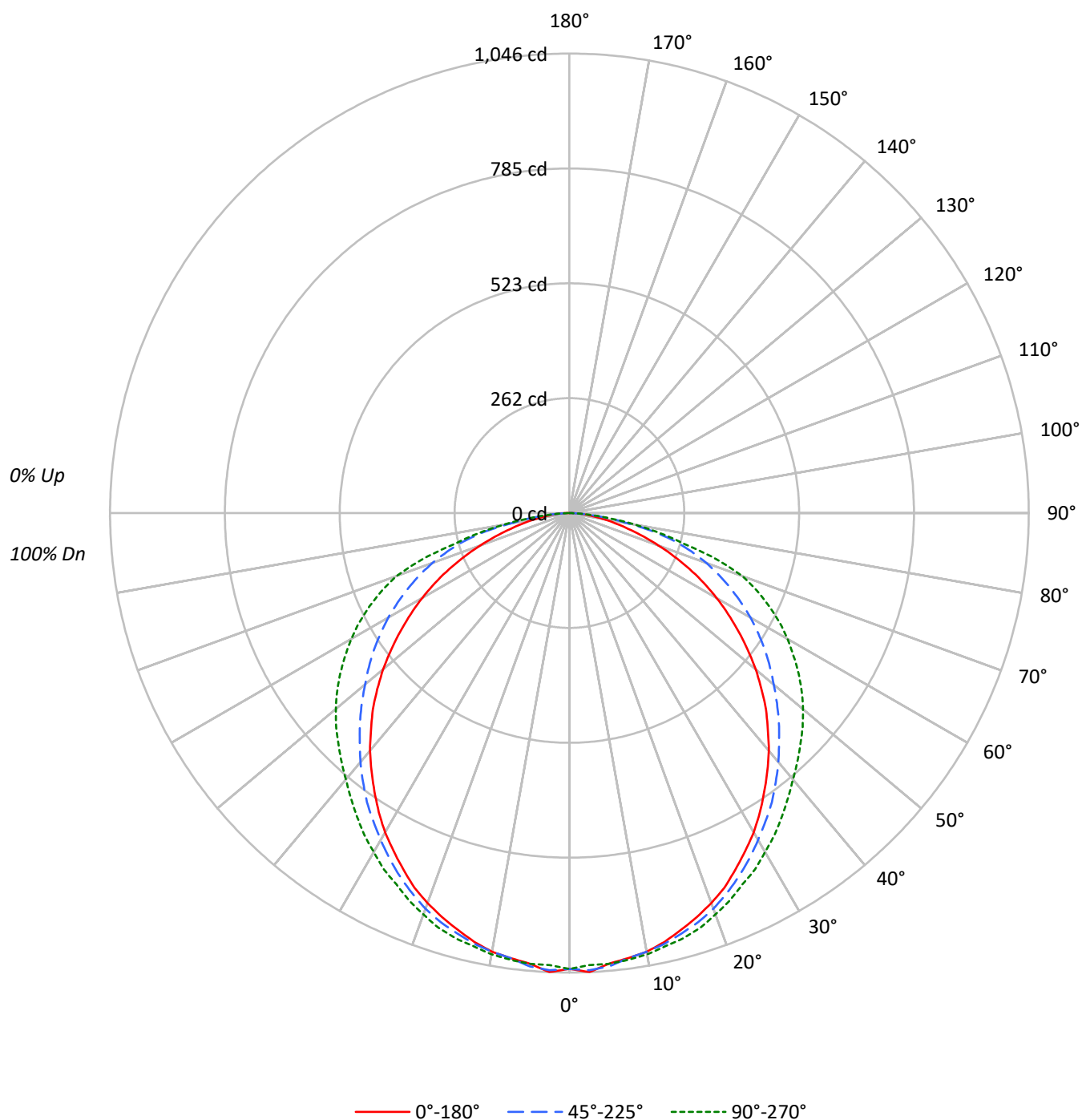
Input Watts (W): 35.433
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2792	2792	2792
5°	2782	2798	2782
10°	2770	2770	2787
15°	2736	2758	2791
20°	2705	2745	2784
25°	2657	2710	2769
30°	2608	2670	2768
35°	2542	2640	2770
40°	2481	2600	2781
45°	2409	2567	2832
50°	2318	2542	2907
55°	2206	2551	2988
60°	2082	2563	3086
65°	1920	2578	3196
70°	1702	2607	3294
75°	1444	2599	2806
80°	1199	2091	2337
85°	1041	1408	1349



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.0	3.3
10°-20°	279.7	9.3
20°-30°	420.7	14.0
30°-40°	504.2	16.8
40°-50°	525.8	17.5
50°-60°	489.5	16.3
60°-70°	397.5	13.2
70°-80°	239.5	8.0
80°-90°	54.9	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°	798.5	26.5
0°-40°	1302.7	43.3
0°-60°	2318.0	77.0
0°-90°	3010.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3010.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1038	1038	1038	1038	1038	
5°	1030	1030	1036	1038	1030	98
15°	982	986	990	996	1002	277
25°	895	901	913	925	933	412
35°	774	784	804	827	843	484
45°	633	645	675	718	744	487
55°	470	490	544	603	637	420
65°	302	333	405	468	502	298
75°	139	184	250	266	270	150
85°	34	42	46	44	44	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1037.7	1037.7	1037.7	1037.7	1037.7
2.5°	1045.7	1043.7	1041.7	1035.8	1029.8
5°	1029.8	1029.8	1035.8	1037.7	1029.8
7.5°	1021.9	1021.9	1021.9	1029.8	1025.8
10°	1013.9	1013.9	1013.9	1019.9	1019.9
12.5°	1000.0	1002.0	1004.0	1006.0	1010.0
15°	982.2	986.1	990.1	996.1	1002.0
17.5°	964.3	968.3	976.2	982.2	990.1
20°	944.5	948.4	958.4	964.3	972.3
22.5°	922.7	924.6	936.5	944.5	954.4
25°	894.9	900.8	912.7	924.6	932.6
27.5°	867.1	873.0	886.9	902.8	914.7
30°	839.3	845.3	859.2	879.0	890.9
32.5°	807.6	815.5	831.4	855.2	869.1
35°	773.8	783.8	803.6	827.4	843.3
37.5°	740.1	750.0	771.9	801.6	817.5
40°	706.4	716.3	740.1	771.9	791.7
42.5°	668.7	680.6	706.4	744.1	767.9
45°	633.0	644.9	674.6	718.3	744.1
47.5°	593.3	607.2	640.9	690.5	720.3
50°	553.6	569.5	607.2	662.7	694.5
52.5°	511.9	529.8	575.4	633.0	666.7
55°	470.3	490.1	543.7	603.2	636.9
57.5°	428.6	450.4	509.9	571.4	605.2
60°	386.9	410.7	476.2	539.7	573.4
62.5°	345.3	371.0	440.5	504.0	539.7
65°	301.6	333.3	404.8	468.3	502.0
67.5°	257.9	295.6	369.1	430.6	462.3
70°	216.3	257.9	331.4	388.9	418.7
72.5°	176.6	220.2	291.7	341.3	353.2
75°	138.9	184.5	250.0	265.9	269.9
77.5°	107.1	148.8	198.4	202.4	212.3
80°	77.4	113.1	134.9	146.8	150.8
82.5°	53.6	77.4	89.3	91.3	93.3
85°	33.7	41.7	45.6	43.7	43.7
87.5°	17.9	15.9	13.9	9.9	7.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)