

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: P260492

Luminaire Tested: **22CZ-LD5-44-RDP-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260492
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-L82765-W2A1-U-4000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3250.0 lumens
Efficiency: N/A
Efficacy: 92.9 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

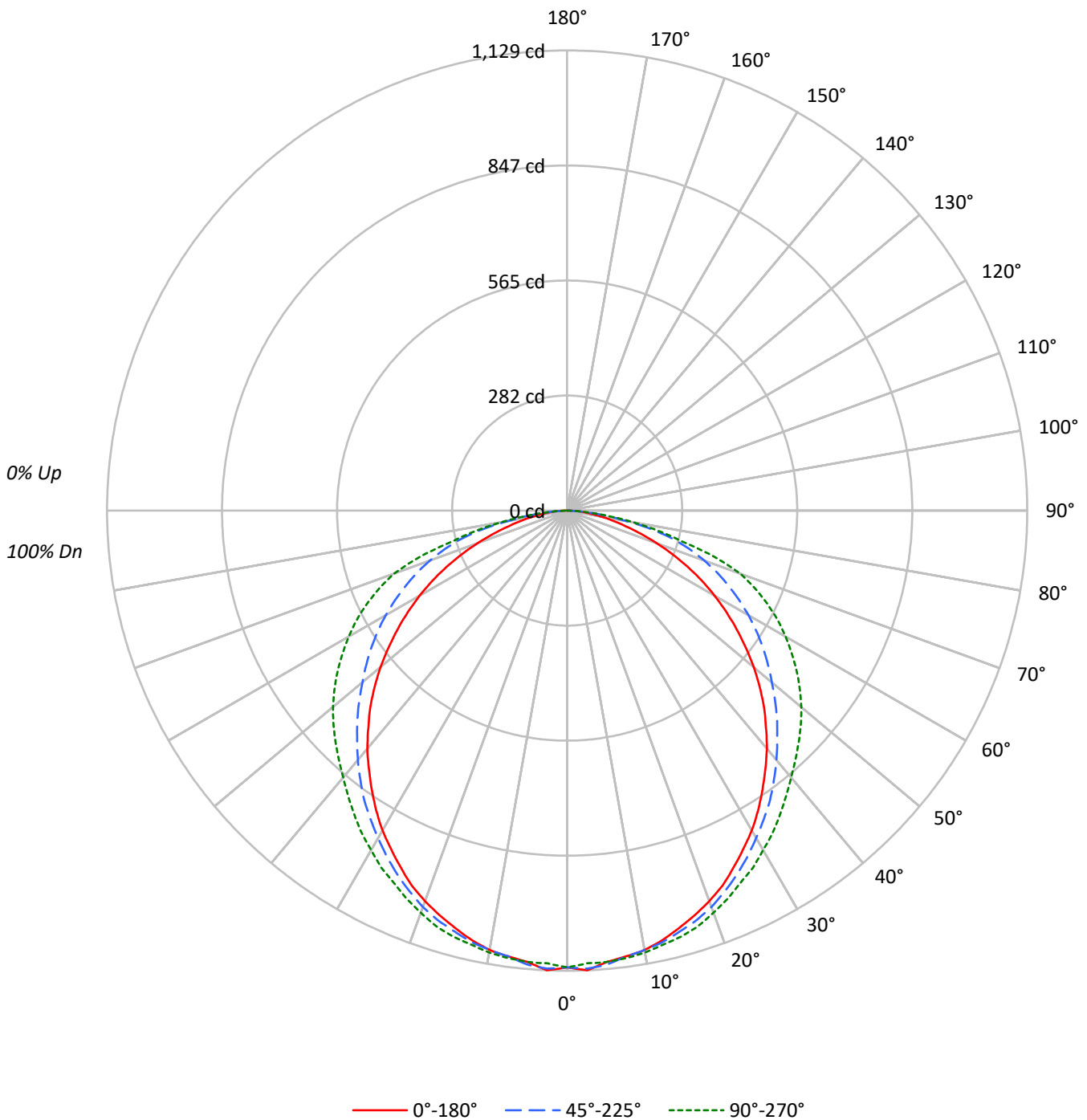
Input Watts (W): 34.968
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	77	73	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	30	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3015	3015	3015
5°	3004	3021	3004
10°	2992	2992	3009
15°	2954	2978	3014
20°	2920	2963	3006
25°	2869	2926	2990
30°	2816	2883	2989
35°	2745	2850	2991
40°	2679	2807	3003
45°	2601	2772	3057
50°	2502	2745	3139
55°	2382	2754	3226
60°	2249	2767	3333
65°	2073	2783	3451
70°	1837	2815	3556
75°	1560	2806	3030
80°	1296	2258	2523
85°	1124	1522	1454



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.9	3.3
10°-20°	302.0	9.3
20°-30°	454.3	14.0
30°-40°	544.4	16.8
40°-50°	567.7	17.5
50°-60°	528.6	16.3
60°-70°	429.2	13.2
70°-80°	258.6	8.0
80°-90°	59.3	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°	862.1	26.5
0°-40°	1406.5	43.3
0°-60°	2502.9	77.0
0°-90°	3250.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3250.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1120	1120	1120	1120	1120	
5°	1112	1112	1118	1120	1112	106
15°	1060	1065	1069	1076	1082	299
25°	966	973	986	998	1007	445
35°	836	846	868	893	910	523
45°	683	696	728	776	803	526
55°	508	529	587	651	688	454
65°	326	360	437	506	542	322
75°	150	199	270	287	291	162
85°	36	45	49	47	47	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1120.5	1120.5	1120.5	1120.5	1120.5
2.5°	1129.0	1126.9	1124.8	1118.3	1111.9
5°	1111.9	1111.9	1118.3	1120.5	1111.9
7.5°	1103.3	1103.3	1103.3	1111.9	1107.6
10°	1094.8	1094.8	1094.8	1101.2	1101.2
12.5°	1079.8	1081.9	1084.1	1086.2	1090.5
15°	1060.5	1064.8	1069.1	1075.5	1081.9
17.5°	1041.2	1045.5	1054.1	1060.5	1069.1
20°	1019.8	1024.1	1034.8	1041.2	1049.8
22.5°	996.2	998.4	1011.2	1019.8	1030.5
25°	966.2	972.7	985.5	998.4	1006.9
27.5°	936.2	942.7	957.7	974.8	987.6
30°	906.2	912.7	927.7	949.1	961.9
32.5°	872.0	880.5	897.7	923.4	938.4
35°	835.5	846.3	867.7	893.4	910.5
37.5°	799.1	809.8	833.4	865.5	882.7
40°	762.7	773.4	799.1	833.4	854.8
42.5°	722.0	734.8	762.7	803.4	829.1
45°	683.4	696.3	728.4	775.6	803.4
47.5°	640.6	655.6	692.0	745.6	777.7
50°	597.7	614.9	655.6	715.6	749.8
52.5°	552.7	572.0	621.3	683.4	719.8
55°	507.8	529.2	587.0	651.3	687.7
57.5°	462.8	486.3	550.6	617.0	653.4
60°	417.8	443.5	514.2	582.7	619.2
62.5°	372.8	400.6	475.6	544.2	582.7
65°	325.6	359.9	437.1	505.6	542.0
67.5°	278.5	319.2	398.5	464.9	499.2
70°	233.5	278.5	357.8	419.9	452.0
72.5°	190.7	237.8	314.9	368.5	381.3
75°	150.0	199.2	269.9	287.1	291.4
77.5°	115.7	160.7	214.2	218.5	229.2
80°	83.6	122.1	145.7	158.5	162.8
82.5°	57.8	83.6	96.4	98.6	100.7
85°	36.4	45.0	49.3	47.1	47.1
87.5°	19.3	17.1	15.0	10.7	8.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)