

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: P259295

Luminaire Tested: **22CZ-LD5-34-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259295
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25706)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-34-UNV-L82765-W2A1-U-2700K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3153.0 lumens
Efficiency: N/A
Efficacy: 122.8 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.26 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

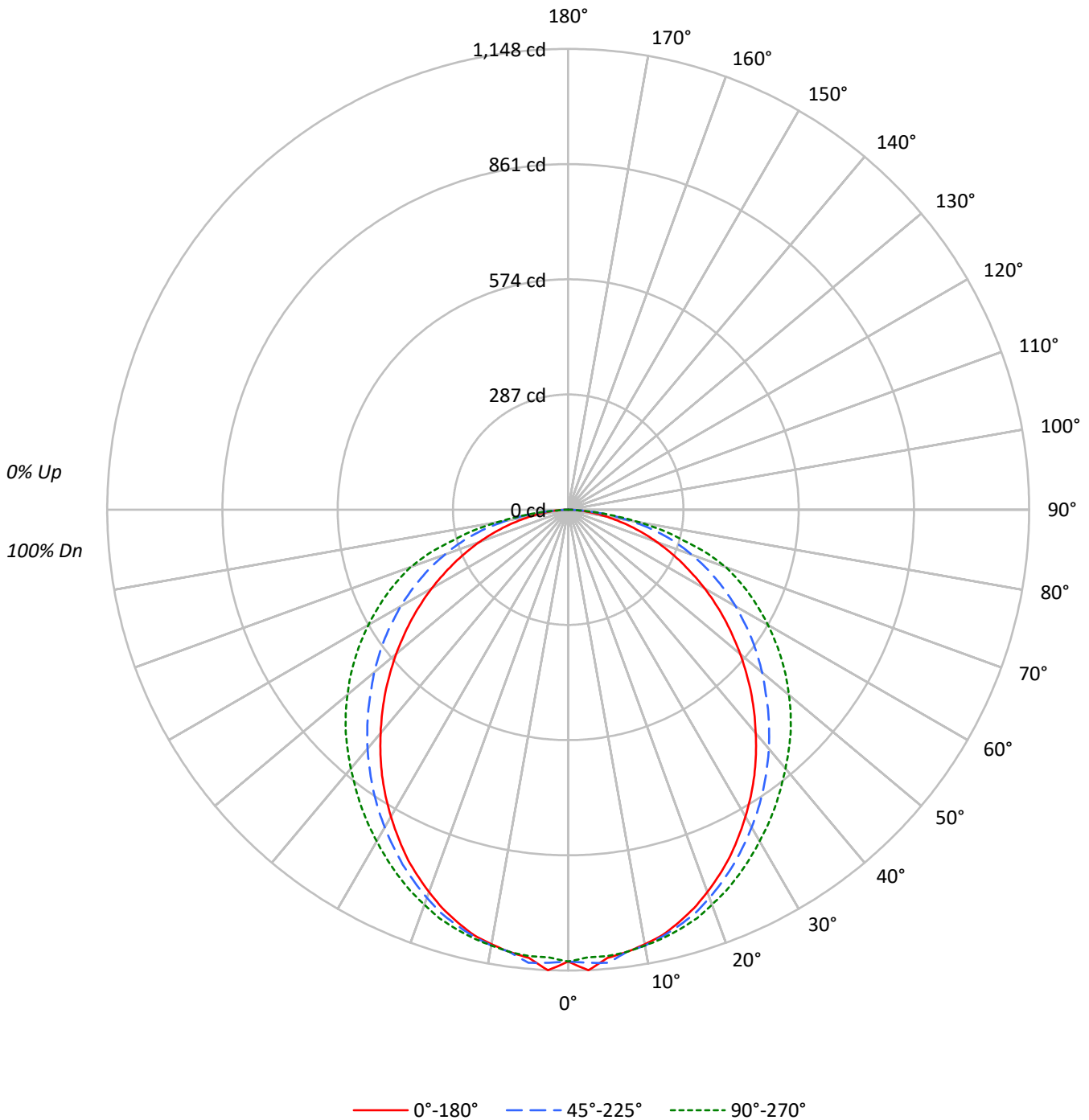
Input Watts (W): 25.668
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69					69			
3	90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43					43			
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37					37			
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33					33			
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29					29			
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26					26			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3028	3028	3028
5°	3028	3061	3015
10°	3004	3012	3012
15°	2964	2986	3011
20°	2902	2946	2999
25°	2832	2896	2982
30°	2744	2839	2963
35°	2654	2785	2957
40°	2553	2731	2957
45°	2451	2678	2982
50°	2343	2638	3004
55°	2230	2611	3043
60°	2112	2591	3095
65°	1982	2578	3173
70°	1846	2570	3281
75°	1674	2567	3109
80°	1449	2376	2757
85°	1232	1800	1751



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.7	3.4
10°-20°	302.3	9.6
20°-30°	449.8	14.3
30°-40°	532.0	16.9
40°-50°	546.8	17.3
50°-60°	499.6	15.8
60°-70°	399.7	12.7
70°-80°	250.8	8.0
80°-90°	65.3	2.1
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°	858.9	27.2
0°-40°	1390.8	44.1
0°-60°	2437.2	77.3
0°-90°	3153.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3153.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1125	1125	1125	1125	1125	
5°	1121	1121	1133	1125	1116	107
15°	1064	1066	1072	1078	1081	300
25°	954	960	975	992	1004	439
35°	808	819	848	880	900	505
45°	644	661	704	756	784	497
55°	475	498	557	618	649	425
65°	311	339	405	466	498	309
75°	161	192	247	284	299	171
85°	40	51	58	57	57	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1125.4	1125.4	1125.4	1125.4	1125.4
2.5°	1148.4	1143.8	1130.0	1120.8	1116.2
5°	1120.8	1120.8	1133.1	1125.4	1116.2
7.5°	1111.6	1111.6	1111.6	1134.6	1111.6
10°	1099.3	1100.9	1102.4	1111.6	1102.4
12.5°	1085.5	1085.5	1088.6	1091.7	1093.2
15°	1064.1	1065.6	1071.7	1077.9	1080.9
17.5°	1041.1	1045.7	1053.3	1061.0	1067.1
20°	1013.5	1019.6	1028.8	1041.1	1047.2
22.5°	984.4	990.5	1002.8	1016.6	1027.3
25°	953.7	959.8	975.2	992.0	1004.3
27.5°	918.4	926.1	944.5	967.5	979.8
30°	883.2	892.4	913.8	939.9	953.7
32.5°	846.4	857.1	881.6	910.8	927.6
35°	808.0	818.8	847.9	880.1	900.0
37.5°	768.2	780.4	812.6	849.4	870.9
40°	726.8	740.6	777.4	817.2	841.8
42.5°	685.4	700.7	740.6	788.1	812.6
45°	644.0	660.8	703.8	755.9	783.5
47.5°	601.0	621.0	665.4	723.7	751.3
50°	559.6	579.6	630.2	690.0	717.6
52.5°	516.7	539.7	593.4	654.7	683.8
55°	475.3	498.3	556.6	617.9	648.6
57.5°	433.9	456.9	518.2	581.1	611.8
60°	392.5	417.0	481.4	542.8	575.0
62.5°	351.1	377.2	443.1	506.0	536.6
65°	311.3	338.9	404.8	466.1	498.3
67.5°	272.9	302.1	366.4	426.2	458.4
70°	234.6	263.7	326.6	384.8	417.0
72.5°	197.8	226.9	288.3	340.4	364.9
75°	161.0	191.7	246.9	283.7	299.0
77.5°	125.7	156.4	203.9	228.5	245.3
80°	93.5	119.6	153.3	171.7	177.9
82.5°	64.4	85.9	107.3	111.9	115.0
85°	39.9	50.6	58.3	56.7	56.7
87.5°	18.4	19.9	16.9	12.3	7.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)