

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: P259255

Luminaire Tested: **22CZ-LD5-34-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259255
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-L93050-W2A1-U-4000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3154.0 lumens
Efficiency: N/A
Efficacy: 119.8 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

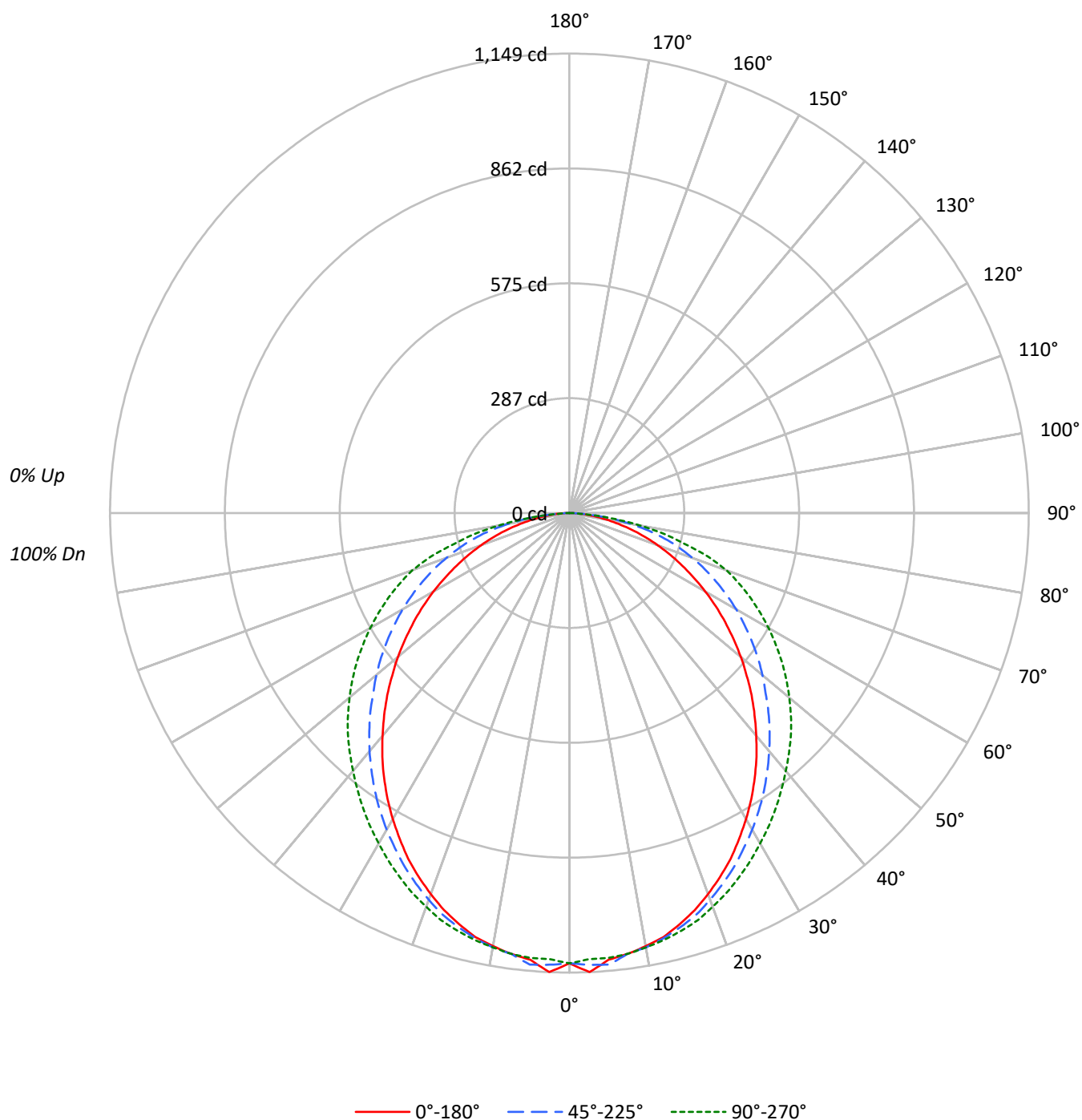
Input Watts (W): 26.335368
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	108	104	99	95	106	101	97	94	97	94	91		93	90	88		89
2	98	90	83	77	96	88	82	76	84	79	74		81	77	73		78
3	90	79	70	64	87	77	69	63	74	68	62		71	66	61		69
4	82	70	61	54	80	68	60	54	66	59	53		64	57	52		61
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		55
6	70	56	47	41	68	55	47	40	53	46	40		52	45	40		50
7	65	51	42	36	63	50	42	36	48	41	35		47	40	35		46
8	60	46	38	32	58	46	38	32	44	37	32		43	36	31		42
9	56	43	34	29	55	42	34	29	41	34	29		40	33	28		39
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3030	3030	3030
5°	3029	3062	3016
10°	3005	3013	3013
15°	2965	2987	3012
20°	2903	2947	3000
25°	2833	2896	2983
30°	2745	2840	2964
35°	2655	2786	2958
40°	2554	2732	2958
45°	2452	2679	2982
50°	2344	2639	3005
55°	2231	2612	3044
60°	2113	2592	3096
65°	1983	2578	3174
70°	1847	2570	3282
75°	1674	2567	3110
80°	1450	2377	2757
85°	1232	1800	1751



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.8	3.4
10°-20°	302.4	9.6
20°-30°	449.9	14.3
30°-40°	532.1	16.9
40°-50°	546.9	17.3
50°-60°	499.8	15.8
60°-70°	399.8	12.7
70°-80°	250.9	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°	859.1	27.2
0°-40°	1391.3	44.1
0°-60°	2438.0	77.3
0°-90°	3154.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3154.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1126	1126	1126	1126	1126	
5°	1121	1121	1133	1126	1117	107
15°	1064	1066	1072	1078	1081	300
25°	954	960	976	992	1005	439
35°	808	819	848	880	900	505
45°	644	661	704	756	784	497
55°	476	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°	1125.8	1125.8	1125.8	1125.8	1125.8
2.5°	1148.8	1144.2	1130.4	1121.2	1116.6
5°	1121.2	1121.2	1133.4	1125.8	1116.6
7.5°	1112.0	1112.0	1112.0	1135.0	1112.0
10°	1099.7	1101.2	1102.8	1112.0	1102.8
12.5°	1085.9	1085.9	1089.0	1092.0	1093.6
15°	1064.4	1066.0	1072.1	1078.2	1081.3
17.5°	1041.4	1046.0	1053.7	1061.4	1067.5
20°	1013.8	1019.9	1029.1	1041.4	1047.5
22.5°	984.7	990.8	1003.1	1016.9	1027.6
25°	954.0	960.1	975.5	992.3	1004.6
27.5°	918.7	926.4	944.8	967.8	980.1
30°	883.4	892.6	914.1	940.2	954.0
32.5°	846.6	857.4	881.9	911.0	927.9
35°	808.3	819.0	848.2	880.4	900.3
37.5°	768.4	780.7	812.9	849.7	871.2
40°	727.0	740.8	777.6	817.5	842.0
42.5°	685.6	700.9	740.8	788.3	812.9
45°	644.2	661.0	704.0	756.1	783.7
47.5°	601.2	621.2	665.6	723.9	751.5
50°	559.8	579.8	630.4	690.2	717.8
52.5°	516.9	539.9	593.6	654.9	684.1
55°	475.5	498.5	556.7	618.1	648.8
57.5°	434.0	457.1	518.4	581.3	612.0
60°	392.6	417.2	481.6	542.9	575.2
62.5°	351.2	377.3	443.3	506.1	536.8
65°	311.4	339.0	404.9	466.3	498.5
67.5°	273.0	302.1	366.6	426.4	458.6
70°	234.7	263.8	326.7	385.0	417.2
72.5°	197.9	227.0	288.3	340.5	365.0
75°	161.0	191.7	246.9	283.7	299.1
77.5°	125.8	156.4	204.0	228.5	245.4
80°	93.6	119.6	153.4	171.8	177.9
82.5°	64.4	85.9	107.4	112.0	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)