

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: P259521

Luminaire Tested: **22CZ-LD5-34-S-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259521
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25712)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-34-S-UNV-L92765-W2A1-U-4500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3175.0 lumens
Efficiency: N/A
Efficacy: 121.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

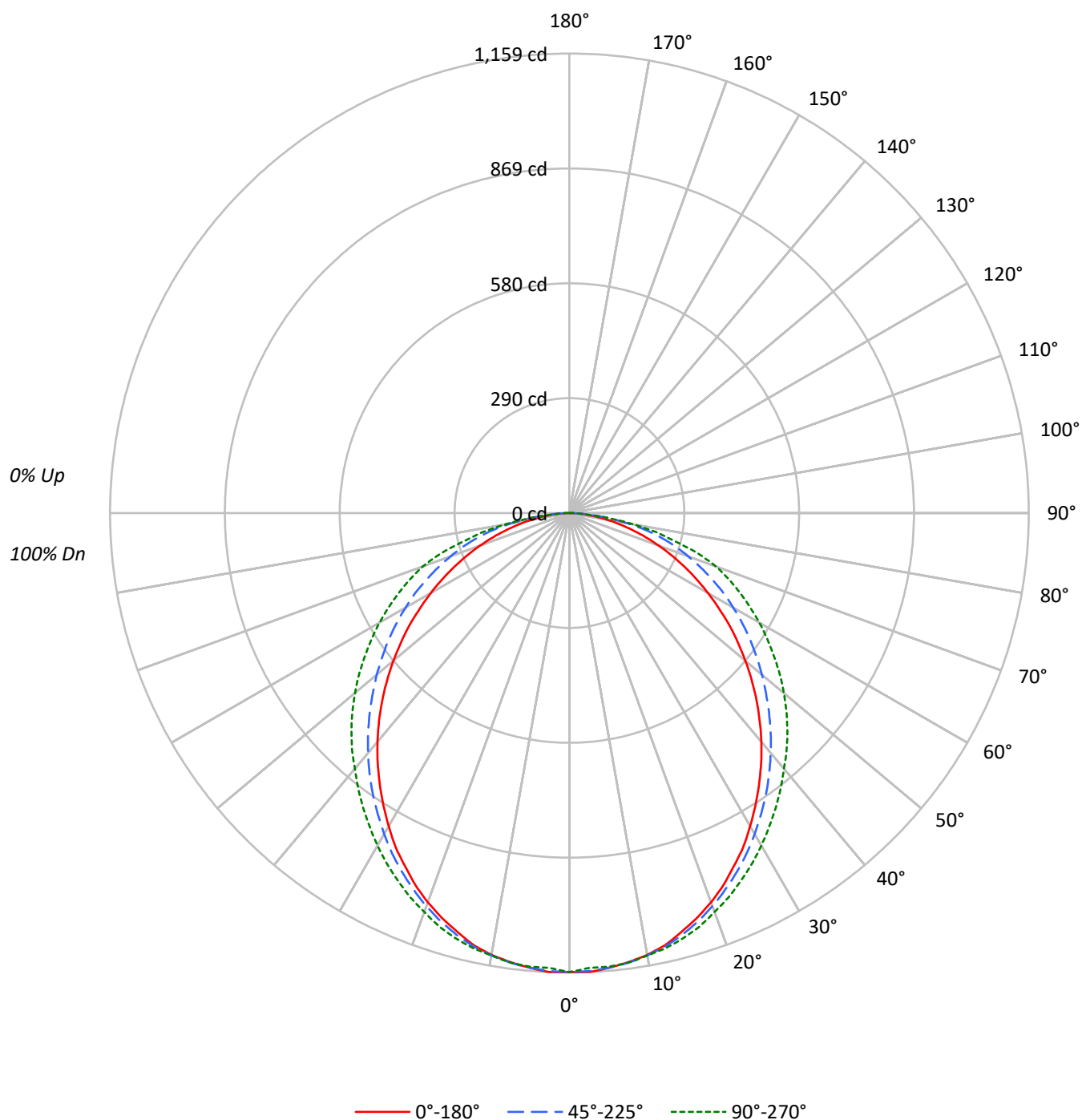
Input Watts (W): 26.133
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	104	99	95	106	101	97	94		97	94	91		93	91	88		90	87	85
2	99	90	83	77	96	88	82	77		85	79	75		81	77	73		78	75	71
3	90	79	71	64	87	78	70	64		75	68	63		72	66	62		69	64	60
4	82	70	61	54	80	69	61	54		66	59	53		64	58	53		62	56	52
5	76	63	54	47	74	62	53	47		59	52	46		57	51	46		56	50	45
6	70	56	47	41	68	56	47	41		54	46	40		52	45	40		50	44	40
7	65	51	42	36	63	50	42	36		49	41	36		47	41	36		46	40	35
8	60	47	38	32	59	46	38	32		45	37	32		43	37	32		42	36	32
9	56	43	35	29	55	42	34	29		41	34	29		40	34	29		39	33	29
10	53	40	32	26	52	39	32	26		38	31	26		37	31	26		36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3115	3115	3115
5°	3110	3110	3102
10°	3092	3096	3096
15°	3046	3068	3093
20°	2991	3022	3066
25°	2916	2966	3038
30°	2834	2905	3009
35°	2740	2841	2981
40°	2647	2775	2957
45°	2542	2710	2960
50°	2426	2656	2956
55°	2311	2611	2955
60°	2175	2569	2979
65°	2039	2534	3020
70°	1884	2507	3096
75°	1697	2489	2870
80°	1489	2317	2506
85°	1226	1741	1553



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.3	3.4
10°-20°	310.5	9.8
20°-30°	461.2	14.5
30°-40°	542.9	17.1
40°-50°	553.4	17.4
50°-60°	499.1	15.7
60°-70°	393.2	12.4
70°-80°	242.5	7.6
80°-90°	63.0	2.0
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°	881.0	27.7
0°-40°	1423.9	44.8
0°-60°	2476.4	78.0
0°-90°	3175.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3175.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1158	1158	1158	1158	1158	
5°	1151	1153	1151	1150	1148	109
15°	1093	1098	1101	1107	1110	308
25°	982	988	999	1016	1023	453
35°	834	843	865	892	907	522
45°	668	679	712	755	778	515
55°	493	509	557	607	630	440
65°	320	343	398	448	474	317
75°	163	191	239	267	276	174
85°	40	50	56	53	50	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1157.5	1157.5	1157.5	1157.5	1157.5
2.5°	1159.0	1159.0	1156.0	1152.9	1148.3
5°	1151.4	1152.9	1151.4	1149.9	1148.3
7.5°	1142.2	1143.8	1143.8	1143.8	1143.8
10°	1131.6	1133.1	1133.1	1133.1	1133.1
12.5°	1116.3	1117.8	1119.4	1120.9	1123.9
15°	1093.4	1098.0	1101.1	1107.2	1110.2
17.5°	1070.6	1075.1	1079.7	1087.3	1093.4
20°	1044.6	1047.7	1055.3	1064.5	1070.6
22.5°	1015.7	1020.2	1027.9	1040.1	1049.2
25°	982.1	988.2	998.9	1015.7	1023.3
27.5°	950.1	954.7	968.4	986.7	997.4
30°	912.0	918.1	934.8	957.7	968.4
32.5°	873.8	881.5	899.8	925.7	937.9
35°	834.2	843.3	864.7	892.1	907.4
37.5°	794.5	803.7	828.1	858.6	875.4
40°	753.4	762.5	790.0	823.5	841.8
42.5°	710.7	721.3	751.8	790.0	811.3
45°	668.0	678.6	712.2	754.9	777.8
47.5°	623.7	635.9	672.5	719.8	742.7
50°	579.5	593.2	634.4	683.2	706.1
52.5°	535.3	550.5	594.8	645.1	669.5
55°	492.6	509.4	556.6	607.0	629.8
57.5°	446.8	466.7	517.0	565.8	591.7
60°	404.1	425.5	477.3	526.1	553.6
62.5°	361.4	384.3	439.2	488.0	513.9
65°	320.3	343.1	398.0	448.4	474.3
67.5°	279.1	305.0	358.4	408.7	434.6
70°	239.4	266.9	318.7	367.5	393.5
72.5°	201.3	228.8	280.6	326.4	341.6
75°	163.2	190.6	239.4	266.9	276.0
77.5°	128.1	154.0	196.7	213.5	225.7
80°	96.1	119.0	149.5	160.1	161.7
82.5°	65.6	85.4	103.7	105.2	103.7
85°	39.7	50.3	56.4	53.4	50.3
87.5°	18.3	19.8	18.3	12.2	7.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)