

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: P259522

Luminaire Tested: **22CZ-LD5-34-S-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259522
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-5000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3240.0 lumens
Efficiency: N/A
Efficacy: 123.5 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

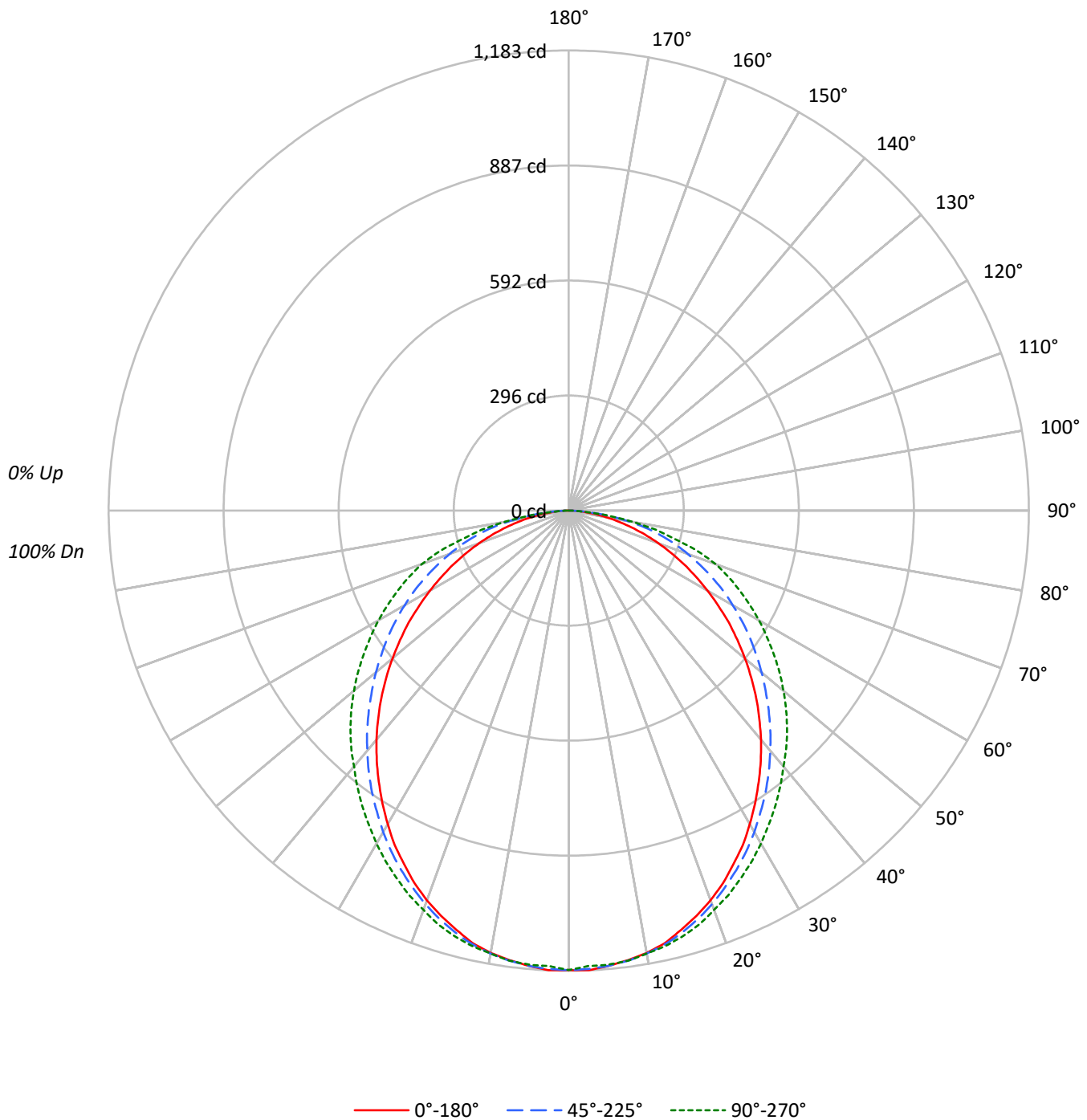
Input Watts (W): 26.226
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3179	3179	3179
5°	3174	3174	3165
10°	3155	3160	3160
15°	3109	3130	3156
20°	3053	3084	3129
25°	2976	3026	3100
30°	2892	2964	3071
35°	2797	2899	3042
40°	2701	2832	3018
45°	2594	2766	3021
50°	2476	2710	3016
55°	2358	2665	3015
60°	2220	2622	3040
65°	2081	2586	3082
70°	1922	2559	3159
75°	1731	2540	2929
80°	1519	2363	2557
85°	1250	1778	1587



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.5	3.4
10°-20°	316.9	9.8
20°-30°	470.6	14.5
30°-40°	554.0	17.1
40°-50°	564.7	17.4
50°-60°	509.4	15.7
60°-70°	401.2	12.4
70°-80°	247.5	7.6
80°-90°	64.2	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°	899.0	27.7
0°-40°	1453.0	44.8
0°-60°	2527.1	78.0
0°-90°	3240.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3240.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1181	1181	1181	1181	1181	
5°	1175	1176	1175	1173	1172	112
15°	1116	1120	1124	1130	1133	315
25°	1002	1008	1019	1036	1044	462
35°	851	861	882	910	926	533
45°	682	692	727	770	794	525
55°	503	520	568	619	643	449
65°	327	350	406	458	484	324
75°	166	194	244	272	282	178
85°	40	51	58	54	51	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1181.2	1181.2	1181.2	1181.2	1181.2
2.5°	1182.7	1182.7	1179.6	1176.5	1171.8
5°	1174.9	1176.5	1174.9	1173.4	1171.8
7.5°	1165.6	1167.2	1167.2	1167.2	1167.2
10°	1154.7	1156.3	1156.3	1156.3	1156.3
12.5°	1139.2	1140.7	1142.3	1143.8	1146.9
15°	1115.8	1120.5	1123.6	1129.8	1132.9
17.5°	1092.5	1097.1	1101.8	1109.6	1115.8
20°	1066.0	1069.1	1076.9	1086.2	1092.5
22.5°	1036.4	1041.1	1048.9	1061.3	1070.7
25°	1002.2	1008.4	1019.3	1036.4	1044.2
27.5°	969.5	974.2	988.2	1006.9	1017.8
30°	930.6	936.8	954.0	977.3	988.2
32.5°	891.7	899.5	918.2	944.6	957.1
35°	851.3	860.6	882.4	910.4	926.0
37.5°	810.8	820.1	845.0	876.2	893.3
40°	768.8	778.1	806.1	840.4	859.0
42.5°	725.2	736.1	767.2	806.1	827.9
45°	681.6	692.5	726.8	770.3	793.7
47.5°	636.5	648.9	686.3	734.5	757.9
50°	591.4	605.4	647.4	697.2	720.5
52.5°	546.2	561.8	606.9	658.3	683.2
55°	502.7	519.8	568.0	619.4	642.7
57.5°	456.0	476.2	527.6	577.4	603.8
60°	412.4	434.2	487.1	536.9	564.9
62.5°	368.8	392.2	448.2	498.0	524.4
65°	326.8	350.1	406.2	457.5	484.0
67.5°	284.8	311.2	365.7	417.1	443.5
70°	244.3	272.3	325.3	375.0	401.5
72.5°	205.4	233.4	286.3	333.0	348.6
75°	166.5	194.5	244.3	272.3	281.7
77.5°	130.7	157.2	200.8	217.9	230.3
80°	98.0	121.4	152.5	163.4	165.0
82.5°	66.9	87.1	105.8	107.4	105.8
85°	40.5	51.4	57.6	54.5	51.4
87.5°	18.7	20.2	18.7	12.4	7.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)