

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: P259423

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259423
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-L93050-W2A1-U-4000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3217.0 lumens
Efficiency: N/A
Efficacy: 122.2 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

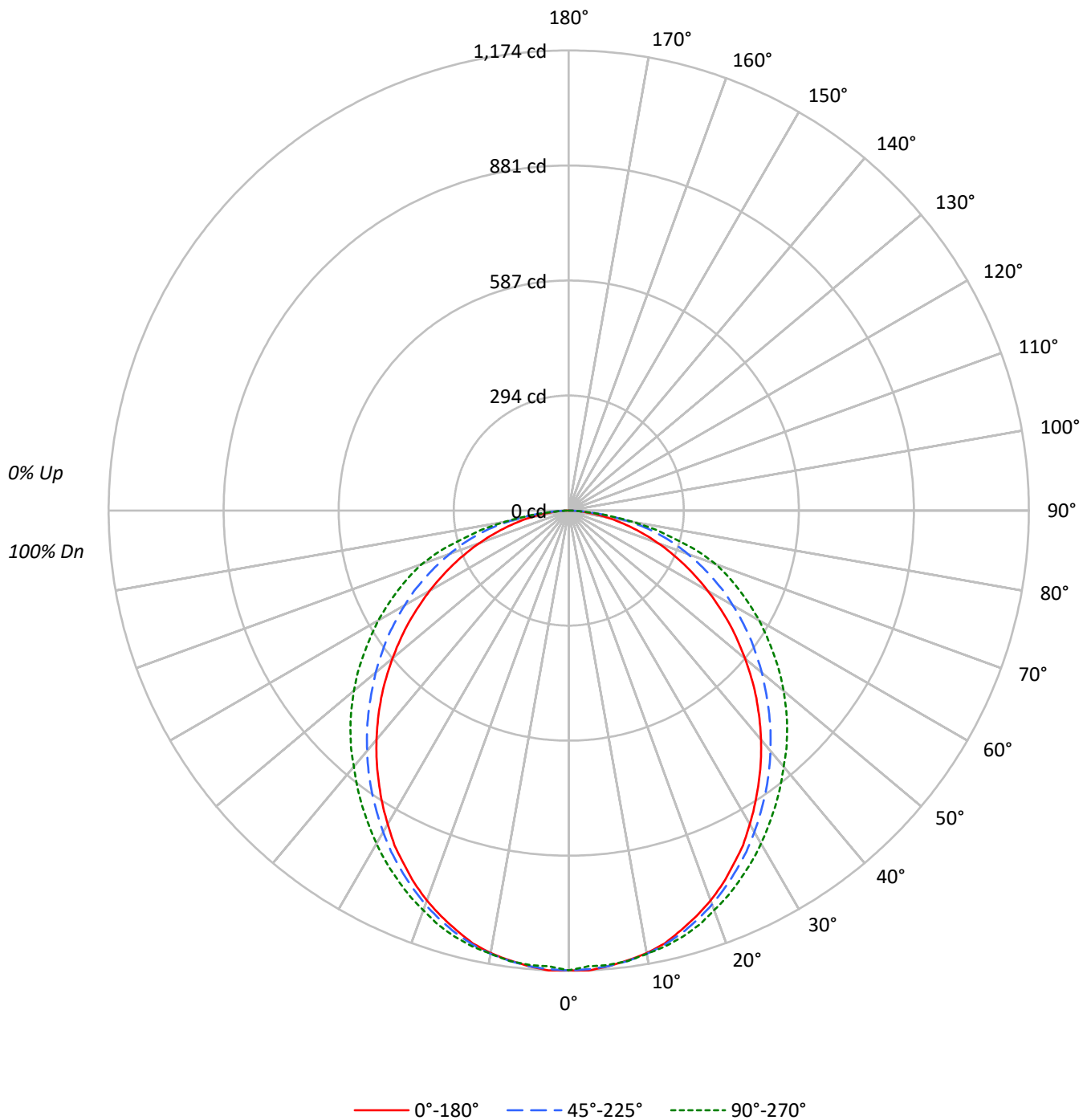
Input Watts (W): 26.335368
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					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°	3156	3156	3156
5°	3151	3151	3143
10°	3133	3137	3137
15°	3087	3108	3134
20°	3031	3062	3106
25°	2955	3005	3078
30°	2871	2943	3049
35°	2777	2878	3020
40°	2681	2812	2996
45°	2576	2746	2999
50°	2458	2691	2995
55°	2342	2646	2994
60°	2204	2603	3019
65°	2066	2568	3060
70°	1909	2541	3137
75°	1719	2522	2908
80°	1508	2346	2538
85°	1241	1766	1575



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.7	3.4
10°-20°	314.6	9.8
20°-30°	467.3	14.5
30°-40°	550.0	17.1
40°-50°	560.7	17.4
50°-60°	505.7	15.7
60°-70°	398.4	12.4
70°-80°	245.7	7.6
80°-90°	63.8	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°	892.6	27.7
0°-40°	1442.7	44.8
0°-60°	2509.1	78.0
0°-90°	3217.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3217.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1173	1173	1173	1173	1173	
5°	1167	1168	1167	1165	1164	111
15°	1108	1112	1116	1122	1125	312
25°	995	1001	1012	1029	1037	459
35°	845	854	876	904	919	529
45°	677	688	722	765	788	522
55°	499	516	564	615	638	445
65°	324	348	403	454	480	321
75°	165	193	243	270	280	176
85°	40	51	57	54	51	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1172.8	1172.8	1172.8	1172.8	1172.8
2.5°	1174.3	1174.3	1171.2	1168.2	1163.5
5°	1166.6	1168.2	1166.6	1165.1	1163.5
7.5°	1157.3	1158.9	1158.9	1158.9	1158.9
10°	1146.5	1148.1	1148.1	1148.1	1148.1
12.5°	1131.1	1132.6	1134.2	1135.7	1138.8
15°	1107.9	1112.5	1115.6	1121.8	1124.9
17.5°	1084.7	1089.3	1094.0	1101.7	1107.9
20°	1058.4	1061.5	1069.3	1078.5	1084.7
22.5°	1029.1	1033.7	1041.4	1053.8	1063.1
25°	995.1	1001.3	1012.1	1029.1	1036.8
27.5°	962.6	967.3	981.2	999.7	1010.5
30°	924.0	930.2	947.2	970.4	981.2
32.5°	885.4	893.1	911.7	937.9	950.3
35°	845.2	854.5	876.1	903.9	919.4
37.5°	805.0	814.3	839.0	869.9	886.9
40°	763.3	772.6	800.4	834.4	852.9
42.5°	720.1	730.9	761.8	800.4	822.0
45°	676.8	687.6	721.6	764.9	788.0
47.5°	632.0	644.3	681.4	729.3	752.5
50°	587.2	601.1	642.8	692.2	715.4
52.5°	542.4	557.8	602.6	653.6	678.3
55°	499.1	516.1	564.0	615.0	638.2
57.5°	452.7	472.8	523.8	573.3	599.5
60°	409.5	431.1	483.6	533.1	560.9
62.5°	366.2	389.4	445.0	494.5	520.7
65°	324.5	347.7	403.3	454.3	480.5
67.5°	282.8	309.0	363.1	414.1	440.4
70°	242.6	270.4	322.9	372.4	398.7
72.5°	204.0	231.8	284.3	330.7	346.1
75°	165.3	193.1	242.6	270.4	279.7
77.5°	129.8	156.1	199.3	216.3	228.7
80°	97.3	120.5	151.4	162.2	163.8
82.5°	66.4	86.5	105.1	106.6	105.1
85°	40.2	51.0	57.2	54.1	51.0
87.5°	18.5	20.1	18.5	12.4	7.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)