

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: P259518

Luminaire Tested: **22CZ-LD5-34-S-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259518
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-3000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2856.0 lumens
Efficiency: N/A
Efficacy: 112.5 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

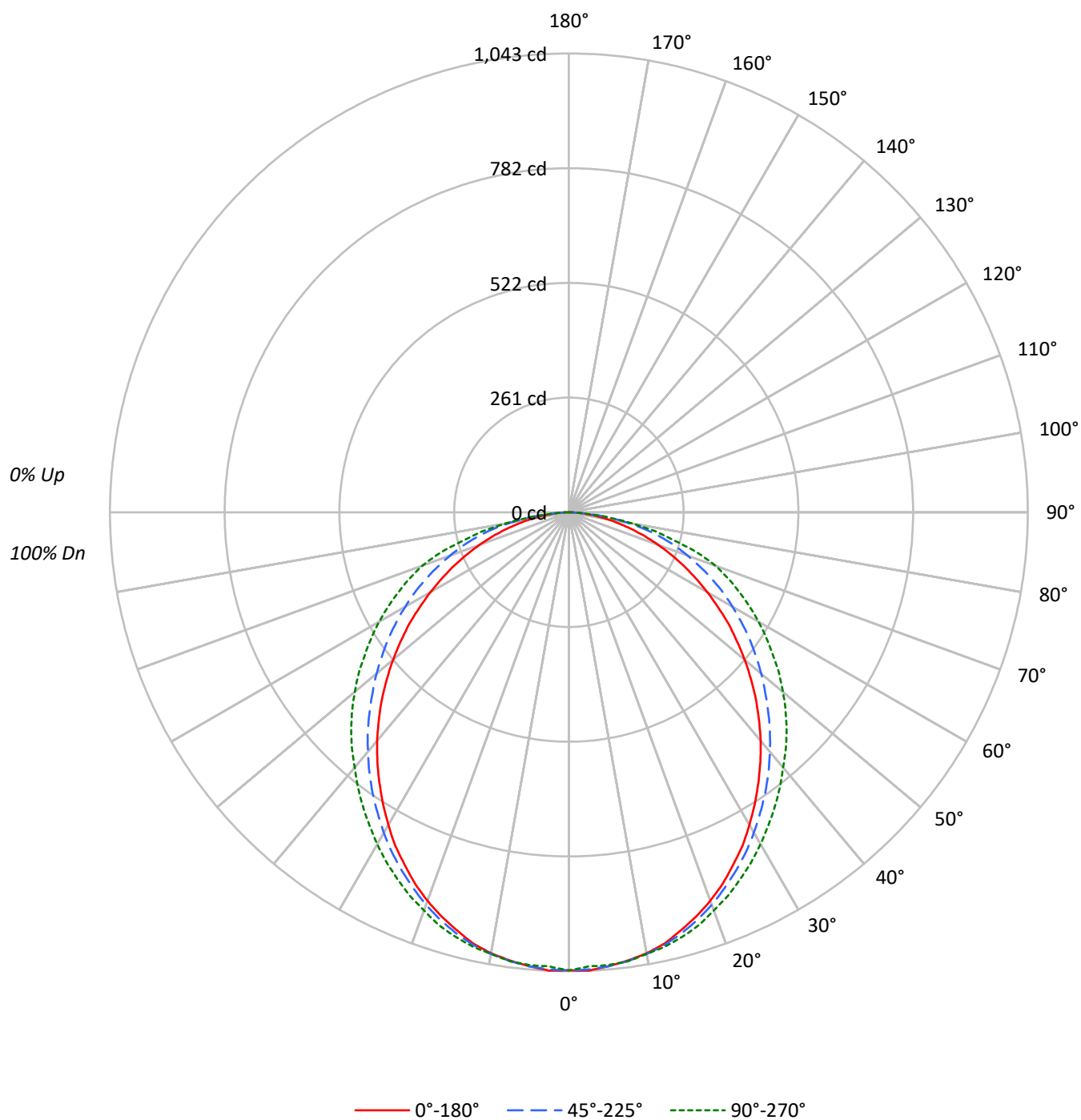
Input Watts (W): 25.389
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83		
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	69		
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	64	60	58		
4	82	70	61	54	80	69	61	54	66	59	53	64	58	53	62	56	52	50		
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43		
6	70	56	47	41	68	56	47	41	54	46	40	52	45	40	50	44	40	38		
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33		
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30		
9	56	43	35	29	55	42	34	29	41	34	29	40	34	29	39	33	29	27		
10	53	40	32	26	52	39	32	26	38	31	26	37	31	26	36	30	26	24		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2802	2802	2802
5°	2798	2798	2790
10°	2781	2785	2785
15°	2740	2759	2782
20°	2691	2718	2758
25°	2623	2668	2733
30°	2549	2613	2707
35°	2465	2555	2681
40°	2381	2496	2660
45°	2286	2438	2662
50°	2182	2389	2659
55°	2079	2349	2658
60°	1956	2311	2680
65°	1834	2280	2716
70°	1695	2256	2784
75°	1526	2240	2582
80°	1339	2083	2253
85°	1102	1568	1399



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.3	3.4
10°-20°	279.3	9.8
20°-30°	414.8	14.5
30°-40°	488.3	17.1
40°-50°	497.8	17.4
50°-60°	449.0	15.7
60°-70°	353.7	12.4
70°-80°	218.2	7.6
80°-90°	56.6	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°	792.5	27.7
0°-40°	1280.8	44.8
0°-60°	2227.6	78.0
0°-90°	2856.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2856.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1041	1041	1041	1041	1041	
5°	1036	1037	1036	1034	1033	98
15°	984	988	990	996	999	277
25°	883	889	898	914	920	407
35°	750	759	778	802	816	469
45°	601	610	641	679	700	463
55°	443	458	501	546	566	395
65°	288	309	358	403	427	285
75°	147	172	215	240	248	157
85°	36	45	51	48	45	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1041.2	1041.2	1041.2	1041.2	1041.2
2.5°	1042.6	1042.6	1039.8	1037.1	1033.0
5°	1035.7	1037.1	1035.7	1034.3	1033.0
7.5°	1027.5	1028.8	1028.8	1028.8	1028.8
10°	1017.9	1019.2	1019.2	1019.2	1019.2
12.5°	1004.1	1005.5	1006.9	1008.3	1011.0
15°	983.6	987.7	990.4	995.9	998.7
17.5°	963.0	967.1	971.2	978.1	983.6
20°	939.7	942.4	949.3	957.5	963.0
22.5°	913.6	917.7	924.6	935.6	943.8
25°	883.4	888.9	898.5	913.6	920.5
27.5°	854.6	858.7	871.1	887.5	897.1
30°	820.3	825.8	840.9	861.5	871.1
32.5°	786.0	792.9	809.4	832.7	843.6
35°	750.4	758.6	777.8	802.5	816.2
37.5°	714.7	722.9	744.9	772.3	787.4
40°	677.7	685.9	710.6	740.8	757.2
42.5°	639.2	648.9	676.3	710.6	729.8
45°	600.8	610.4	640.6	679.0	699.6
47.5°	561.1	572.0	605.0	647.5	668.1
50°	521.3	533.6	570.7	614.6	635.1
52.5°	481.5	495.2	535.0	580.3	602.2
55°	443.1	458.2	500.7	546.0	566.5
57.5°	401.9	419.8	465.0	508.9	532.3
60°	363.5	382.7	429.4	473.3	498.0
62.5°	325.1	345.7	395.1	439.0	462.3
65°	288.1	308.7	358.0	403.3	426.6
67.5°	251.0	274.4	322.4	367.6	391.0
70°	215.4	240.1	286.7	330.6	353.9
72.5°	181.1	205.8	252.4	293.6	307.3
75°	146.8	171.5	215.4	240.1	248.3
77.5°	115.2	138.5	177.0	192.0	203.0
80°	86.4	107.0	134.4	144.0	145.4
82.5°	59.0	76.8	93.3	94.7	93.3
85°	35.7	45.3	50.8	48.0	45.3
87.5°	16.5	17.8	16.5	11.0	6.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)