

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: P259450

Luminaire Tested: **22CZ-LD5-24-S-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259450
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-LD5-24-S-UNV-L82765-W2A1-U-5000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2559.0 lumens
Efficiency: N/A
Efficacy: 142.6 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

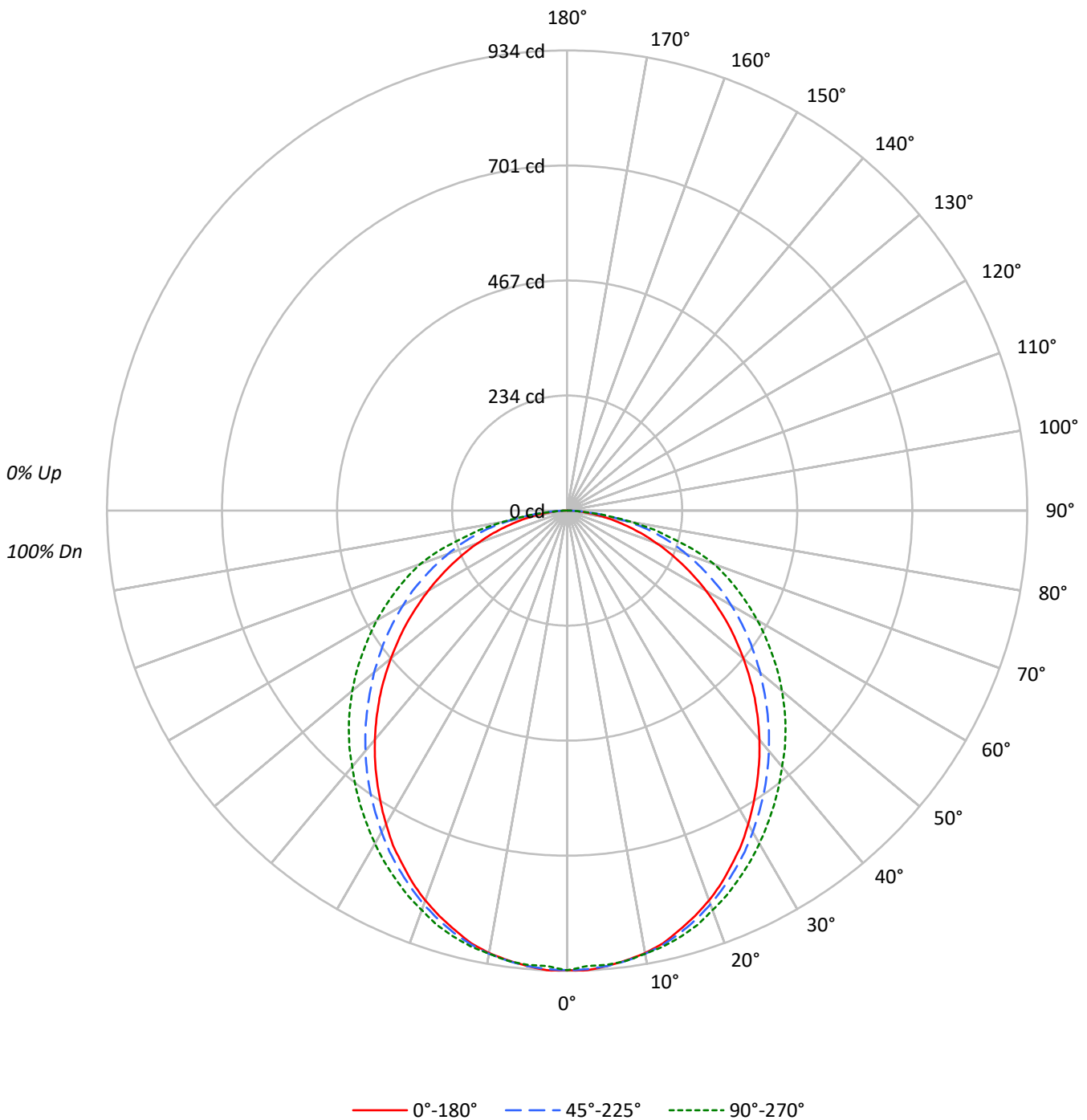
Input Watts (W): 17.949
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
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°	2510	2510	2510
5°	2507	2507	2500
10°	2492	2495	2495
15°	2455	2472	2493
20°	2411	2436	2471
25°	2350	2390	2449
30°	2284	2341	2425
35°	2209	2289	2402
40°	2133	2237	2383
45°	2049	2184	2386
50°	1955	2141	2382
55°	1863	2105	2381
60°	1753	2070	2401
65°	1643	2043	2434
70°	1519	2021	2495
75°	1367	2007	2313
80°	1199	1867	2019
85°	988	1405	1254



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.1	3.4
10°-20°	250.3	9.8
20°-30°	371.7	14.5
30°-40°	437.5	17.1
40°-50°	446.0	17.4
50°-60°	402.3	15.7
60°-70°	316.9	12.4
70°-80°	195.5	7.6
80°-90°	50.7	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°	710.0	27.7
0°-40°	1147.6	44.8
0°-60°	1995.9	78.0
0°-90°	2559.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2559.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	933	933	933	933	933	
5°	928	929	928	927	926	88
15°	881	885	887	892	895	248
25°	792	796	805	819	825	365
35°	672	680	697	719	731	421
45°	538	547	574	608	627	415
55°	397	410	449	489	508	354
65°	258	277	321	361	382	256
75°	132	154	193	215	222	140
85°	32	41	46	43	41	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	932.9	932.9	932.9	932.9	932.9
2.5°	934.1	934.1	931.7	929.2	925.5
5°	928.0	929.2	928.0	926.8	925.5
7.5°	920.6	921.8	921.8	921.8	921.8
10°	912.0	913.2	913.2	913.2	913.2
12.5°	899.7	900.9	902.2	903.4	905.9
15°	881.3	885.0	887.4	892.3	894.8
17.5°	862.8	866.5	870.2	876.4	881.3
20°	842.0	844.4	850.6	857.9	862.8
22.5°	818.6	822.3	828.4	838.3	845.6
25°	791.6	796.5	805.1	818.6	824.7
27.5°	765.7	769.4	780.5	795.2	803.8
30°	735.0	739.9	753.5	771.9	780.5
32.5°	704.3	710.4	725.2	746.1	755.9
35°	672.3	679.7	696.9	719.0	731.3
37.5°	640.4	647.7	667.4	692.0	705.5
40°	607.2	614.6	636.7	663.7	678.5
42.5°	572.8	581.4	606.0	636.7	653.9
45°	538.4	547.0	574.0	608.4	626.9
47.5°	502.7	512.5	542.0	580.1	598.6
50°	467.1	478.1	511.3	550.6	569.1
52.5°	431.4	443.7	479.4	519.9	539.6
55°	397.0	410.5	448.6	489.2	507.6
57.5°	360.1	376.1	416.7	456.0	476.9
60°	325.7	342.9	384.7	424.0	446.2
62.5°	291.3	309.7	354.0	393.3	414.2
65°	258.1	276.6	320.8	361.4	382.3
67.5°	224.9	245.8	288.8	329.4	350.3
70°	193.0	215.1	256.9	296.2	317.1
72.5°	162.2	184.4	226.2	263.0	275.3
75°	131.5	153.6	193.0	215.1	222.5
77.5°	103.2	124.1	158.6	172.1	181.9
80°	77.4	95.9	120.5	129.1	130.3
82.5°	52.9	68.8	83.6	84.8	83.6
85°	32.0	40.6	45.5	43.0	40.6
87.5°	14.7	16.0	14.7	9.8	6.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)