

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: P259282

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259282
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25706)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-24-UNV-L82765-W2A1-U-5000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2509.0 lumens
Efficiency: N/A
Efficacy: 139.8 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.26 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

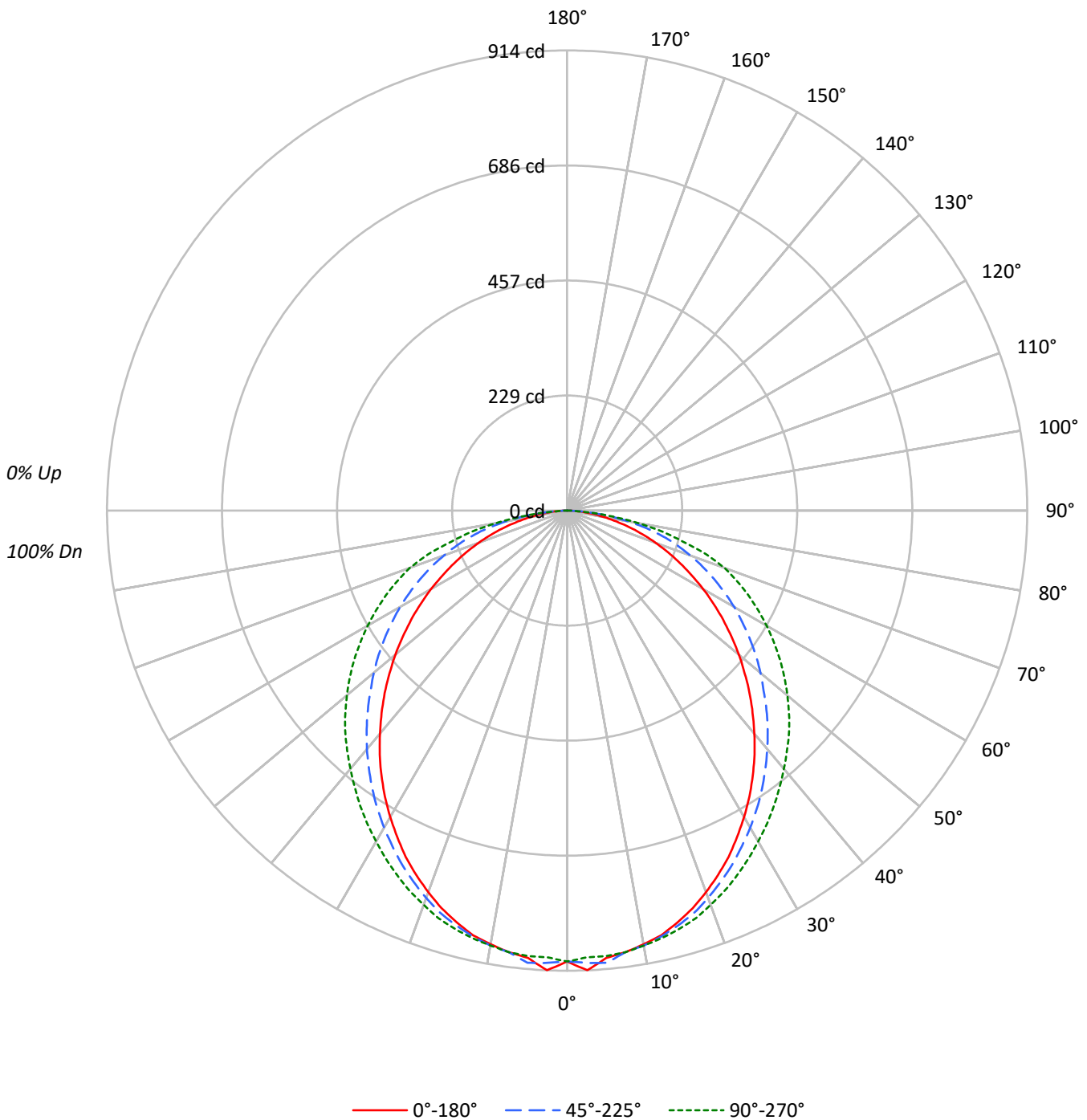
Input Watts (W): 17.949
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2410	2410	2410
5°	2409	2435	2399
10°	2390	2397	2397
15°	2359	2376	2396
20°	2310	2344	2386
25°	2253	2304	2373
30°	2184	2260	2358
35°	2112	2216	2353
40°	2031	2173	2353
45°	1950	2131	2373
50°	1864	2099	2390
55°	1774	2078	2421
60°	1681	2062	2462
65°	1577	2051	2525
70°	1469	2045	2611
75°	1332	2042	2473
80°	1153	1891	2193
85°	979	1433	1392



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.9	3.4
10°-20°	240.6	9.6
20°-30°	357.9	14.3
30°-40°	423.3	16.9
40°-50°	435.1	17.3
50°-60°	397.6	15.8
60°-70°	318.0	12.7
70°-80°	199.6	8.0
80°-90°	52.0	2.1
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°	683.4	27.2
0°-40°	1106.7	44.1
0°-60°	1939.4	77.3
0°-90°	2509.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2509.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	896	896	896	896	896	
5°	892	892	902	896	888	85
15°	847	848	853	858	860	238
25°	759	764	776	789	799	349
35°	643	652	675	700	716	402
45°	512	526	560	602	624	395
55°	378	396	443	492	516	338
65°	248	270	322	371	396	246
75°	128	152	196	226	238	136
85°	32	40	46	45	45	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	895.5	895.5	895.5	895.5	895.5
2.5°	913.8	910.2	899.2	891.9	888.2
5°	891.9	891.9	901.6	895.5	888.2
7.5°	884.6	884.6	884.6	902.9	884.6
10°	874.8	876.0	877.2	884.6	877.2
12.5°	863.8	863.8	866.3	868.7	869.9
15°	846.7	848.0	852.8	857.7	860.2
17.5°	828.4	832.1	838.2	844.3	849.2
20°	806.5	811.4	818.7	828.4	833.3
22.5°	783.3	788.2	797.9	808.9	817.5
25°	758.9	763.8	776.0	789.4	799.2
27.5°	730.8	736.9	751.6	769.9	779.6
30°	702.8	710.1	727.2	747.9	758.9
32.5°	673.5	682.0	701.6	724.7	738.2
35°	643.0	651.5	674.7	700.3	716.2
37.5°	611.3	621.0	646.6	675.9	693.0
40°	578.3	589.3	618.6	650.3	669.8
42.5°	545.4	557.6	589.3	627.1	646.6
45°	512.4	525.9	560.0	601.5	623.5
47.5°	478.3	494.1	529.5	575.9	597.8
50°	445.3	461.2	501.5	549.0	571.0
52.5°	411.2	429.5	472.2	521.0	544.2
55°	378.2	396.5	442.9	491.7	516.1
57.5°	345.3	363.6	412.4	462.4	486.8
60°	312.3	331.9	383.1	431.9	457.5
62.5°	279.4	300.1	352.6	402.6	427.0
65°	247.7	269.6	322.1	370.9	396.5
67.5°	217.2	240.4	291.6	339.2	364.8
70°	186.7	209.9	259.9	306.2	331.9
72.5°	157.4	180.6	229.4	270.9	290.4
75°	128.1	152.5	196.4	225.7	237.9
77.5°	100.0	124.4	162.3	181.8	195.2
80°	74.4	95.2	122.0	136.7	141.5
82.5°	51.2	68.3	85.4	89.1	91.5
85°	31.7	40.3	46.4	45.1	45.1
87.5°	14.6	15.9	13.4	9.8	6.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)