

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: P259339

Luminaire Tested: **22CZ-LD5-24-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259339
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-L92765-W2A1-U-6500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2313.0 lumens
Efficiency: N/A
Efficacy: 125.6 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

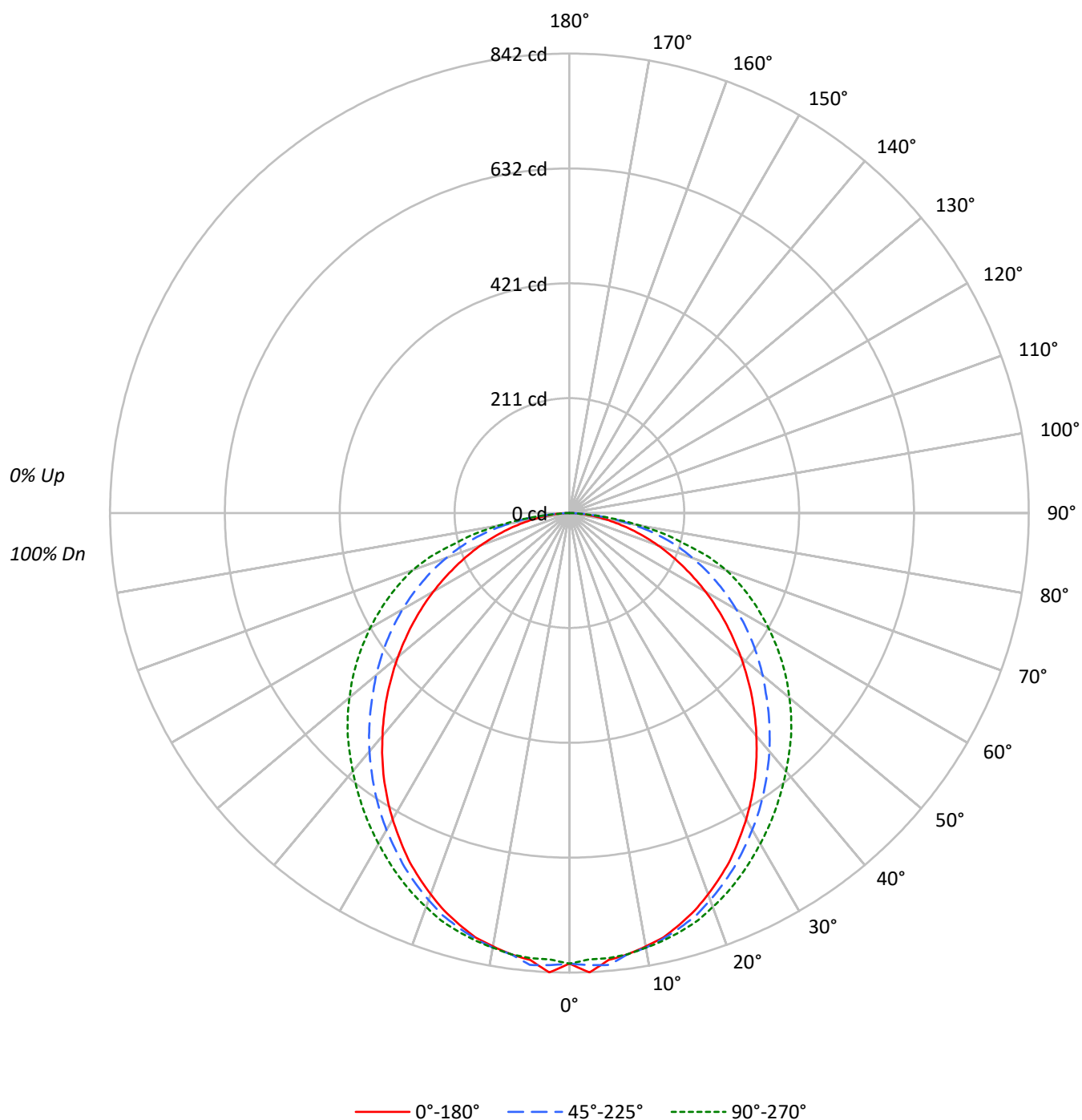
Input Watts (W): 18.414
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2222	2222	2222
5°	2221	2245	2212
10°	2204	2210	2210
15°	2175	2190	2209
20°	2129	2161	2200
25°	2077	2124	2187
30°	2013	2083	2174
35°	1947	2043	2169
40°	1873	2003	2169
45°	1798	1965	2187
50°	1719	1935	2204
55°	1636	1916	2232
60°	1549	1901	2270
65°	1454	1890	2328
70°	1354	1885	2407
75°	1228	1883	2280
80°	1063	1743	2022
85°	902	1318	1284



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.3	3.4
10°-20°	221.8	9.6
20°-30°	329.9	14.3
30°-40°	390.2	16.9
40°-50°	401.1	17.3
50°-60°	366.5	15.8
60°-70°	293.2	12.7
70°-80°	184.0	8.0
80°-90°	47.9	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°	630.1	27.2
0°-40°	1020.3	44.1
0°-60°	1787.9	77.3
0°-90°	2313.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2313.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	826	826	826	826	826	
5°	822	822	831	826	819	78
15°	781	782	786	791	793	220
25°	700	704	715	728	737	322
35°	593	601	622	646	660	370
45°	472	485	516	554	575	364
55°	349	366	408	453	476	312
65°	228	249	297	342	366	227
75°	118	141	181	208	219	125
85°	29	37	43	42	42	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	825.6	825.6	825.6	825.6	825.6
2.5°	842.5	839.1	829.0	822.2	818.8
5°	822.2	822.2	831.2	825.6	818.8
7.5°	815.5	815.5	815.5	832.3	815.5
10°	806.5	807.6	808.7	815.5	808.7
12.5°	796.3	796.3	798.6	800.8	802.0
15°	780.6	781.7	786.2	790.7	793.0
17.5°	763.7	767.1	772.7	778.3	782.8
20°	743.5	748.0	754.7	763.7	768.2
22.5°	722.1	726.6	735.6	745.7	753.6
25°	699.6	704.1	715.4	727.7	736.7
27.5°	673.7	679.4	692.9	709.7	718.7
30°	647.9	654.6	670.4	689.5	699.6
32.5°	620.9	628.8	646.7	668.1	680.5
35°	592.8	600.6	622.0	645.6	660.2
37.5°	563.5	572.5	596.1	623.1	638.9
40°	533.1	543.3	570.3	599.5	617.5
42.5°	502.8	514.0	543.3	578.1	596.1
45°	472.4	484.8	516.3	554.5	574.8
47.5°	440.9	455.5	488.2	530.9	551.1
50°	410.5	425.2	462.3	506.2	526.4
52.5°	379.1	395.9	435.3	480.3	501.7
55°	348.7	365.6	408.3	453.3	475.8
57.5°	318.3	335.2	380.2	426.3	448.8
60°	287.9	305.9	353.2	398.2	421.8
62.5°	257.6	276.7	325.1	371.2	393.7
65°	228.3	248.6	296.9	341.9	365.6
67.5°	200.2	221.6	268.8	312.7	336.3
70°	172.1	193.5	239.6	282.3	305.9
72.5°	145.1	166.5	211.5	249.7	267.7
75°	118.1	140.6	181.1	208.1	219.3
77.5°	92.2	114.7	149.6	167.6	180.0
80°	68.6	87.7	112.5	126.0	130.5
82.5°	47.2	63.0	78.7	82.1	84.4
85°	29.2	37.1	42.7	41.6	41.6
87.5°	13.5	14.6	12.4	9.0	5.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)