

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: P259337

Luminaire Tested: **22CZ-LD5-24-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259337
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-5500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2288.0 lumens
Efficiency: N/A
Efficacy: 126.8 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

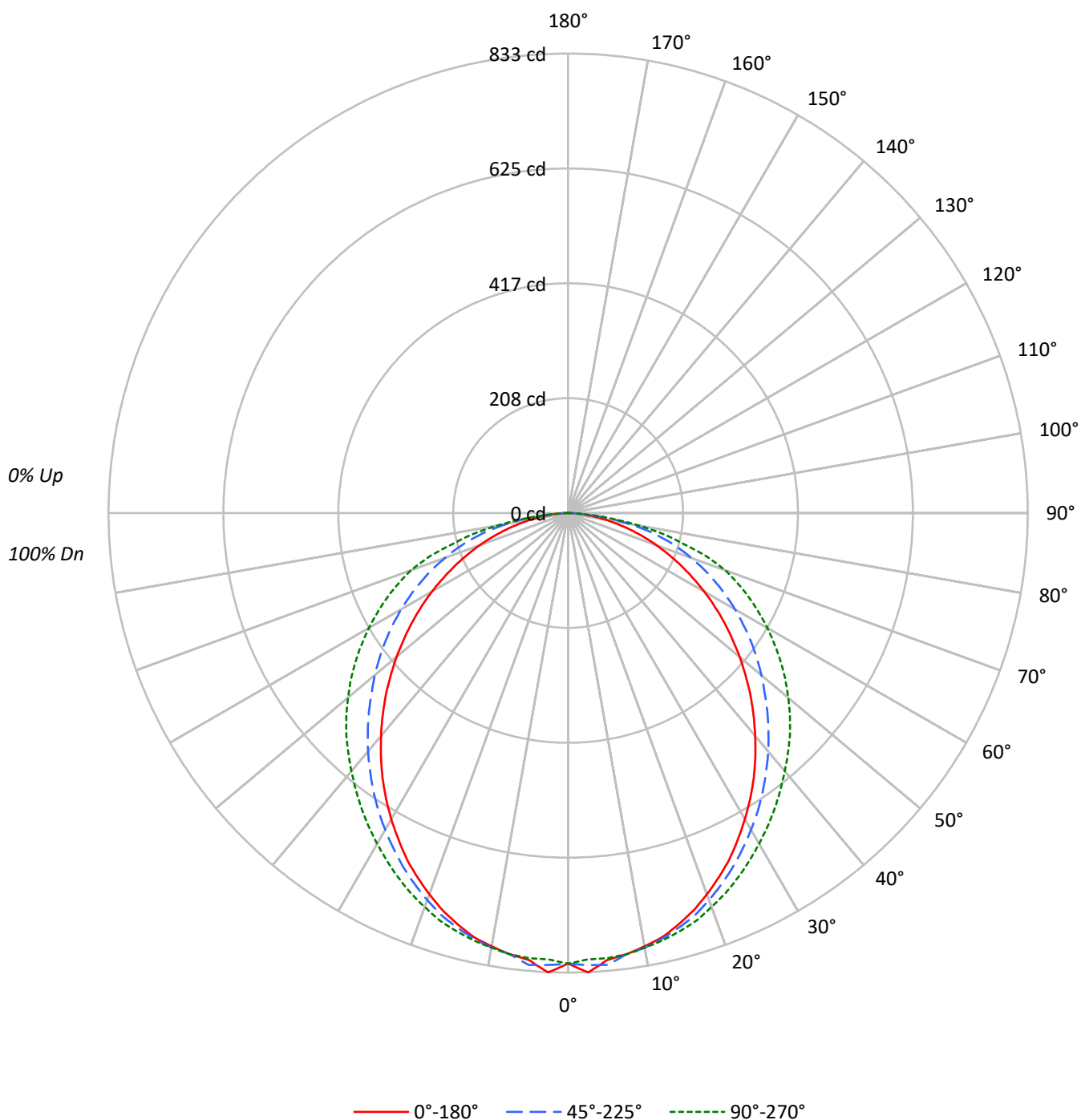
Input Watts (W): 18.042
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P259337

CATALOG NUMBER: 22CZ-LD5-24-UNV-L92765-W2A1-U-5500K

Luminous Intensity Polar Plot





TEST NUMBER: P259337

CATALOG NUMBER: 22CZ-LD5-24-UNV-L92765-W2A1-U-5500K

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		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		100
1	108	104	99	95	106	101	97	94	97	94	91		93	90	88		83
2	98	90	83	77	96	88	82	76	84	79	74		81	77	73		69
3	90	79	70	64	87	77	69	63	74	68	62		71	66	61		58
4	82	70	61	54	80	68	60	54	66	59	53		64	57	52		49
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		43
6	70	56	47	41	68	55	47	40	53	46	40		52	45	40		37
7	65	51	42	36	63	50	42	36	48	41	35		47	40	35		33
8	60	46	38	32	58	46	38	32	44	37	32		43	36	31		29
9	56	43	34	29	55	42	34	29	41	34	29		40	33	28		26
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2198	2198	2198
5°	2197	2221	2188
10°	2180	2186	2186
15°	2151	2167	2185
20°	2106	2138	2176
25°	2055	2101	2164
30°	1991	2060	2151
35°	1926	2021	2145
40°	1853	1982	2146
45°	1778	1944	2163
50°	1700	1914	2180
55°	1618	1895	2208
60°	1533	1880	2245
65°	1438	1870	2302
70°	1339	1865	2381
75°	1214	1862	2256
80°	1052	1725	2001
85°	892	1306	1272



TEST NUMBER: P259337

CATALOG NUMBER: 22CZ-LD5-24-UNV-L92765-W2A1-U-5500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.5	3.4
10°-20°	219.4	9.6
20°-30°	326.4	14.3
30°-40°	386.0	16.9
40°-50°	396.8	17.3
50°-60°	362.6	15.8
60°-70°	290.0	12.7
70°-80°	182.0	8.0
80°-90°	47.4	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°	623.3	27.2
0°-40°	1009.3	44.1
0°-60°	1768.6	77.3
0°-90°	2288.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2288.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	817	817	817	817	817	
5°	813	813	822	817	810	77
15°	772	773	778	782	784	217
25°	692	696	708	720	729	318
35°	586	594	615	639	653	366
45°	467	480	511	548	568	360
55°	345	362	404	448	471	309
65°	226	246	294	338	362	224
75°	117	139	179	206	217	124
85°	29	37	42	41	41	33
90°	0	0	0	0	0	



TEST NUMBER: P259337

CATALOG NUMBER: 22CZ-LD5-24-UNV-L92765-W2A1-U-5500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	816.7	816.7	816.7	816.7	816.7
2.5°	833.4	830.0	820.0	813.3	810.0
5°	813.3	813.3	822.2	816.7	810.0
7.5°	806.7	806.7	806.7	823.3	806.7
10°	797.7	798.9	800.0	806.7	800.0
12.5°	787.7	787.7	790.0	792.2	793.3
15°	772.2	773.3	777.7	782.2	784.4
17.5°	755.5	758.8	764.4	769.9	774.4
20°	735.4	739.9	746.6	755.5	759.9
22.5°	714.3	718.8	727.7	737.7	745.5
25°	692.1	696.5	707.6	719.9	728.8
27.5°	666.5	672.0	685.4	702.1	711.0
30°	640.9	647.5	663.1	682.0	692.1
32.5°	614.2	622.0	639.8	660.9	673.1
35°	586.4	594.1	615.3	638.6	653.1
37.5°	557.4	566.3	589.7	616.4	632.0
40°	527.4	537.4	564.1	593.0	610.8
42.5°	497.3	508.5	537.4	571.9	589.7
45°	467.3	479.5	510.7	548.5	568.5
47.5°	436.1	450.6	482.9	525.2	545.2
50°	406.1	420.6	457.3	500.7	520.7
52.5°	375.0	391.6	430.6	475.1	496.2
55°	344.9	361.6	403.9	448.4	470.6
57.5°	314.9	331.6	376.1	421.7	443.9
60°	284.8	302.6	349.4	393.9	417.2
62.5°	254.8	273.7	321.5	367.2	389.4
65°	225.9	245.9	293.7	338.2	361.6
67.5°	198.0	219.2	265.9	309.3	332.7
70°	170.2	191.4	237.0	279.3	302.6
72.5°	143.5	164.7	209.2	247.0	264.8
75°	116.8	139.1	179.1	205.8	217.0
77.5°	91.2	113.5	148.0	165.8	178.0
80°	67.9	86.8	111.3	124.6	129.1
82.5°	46.7	62.3	77.9	81.2	83.4
85°	28.9	36.7	42.3	41.2	41.2
87.5°	13.4	14.5	12.2	8.9	5.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)