

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: P260379

Luminaire Tested: **22CZ-LD5-44-SQP-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260379
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25713)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-44-SQP-UNV-L92765-W2A1-U-4500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2506.0 lumens
Efficiency: N/A
Efficacy: 71.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

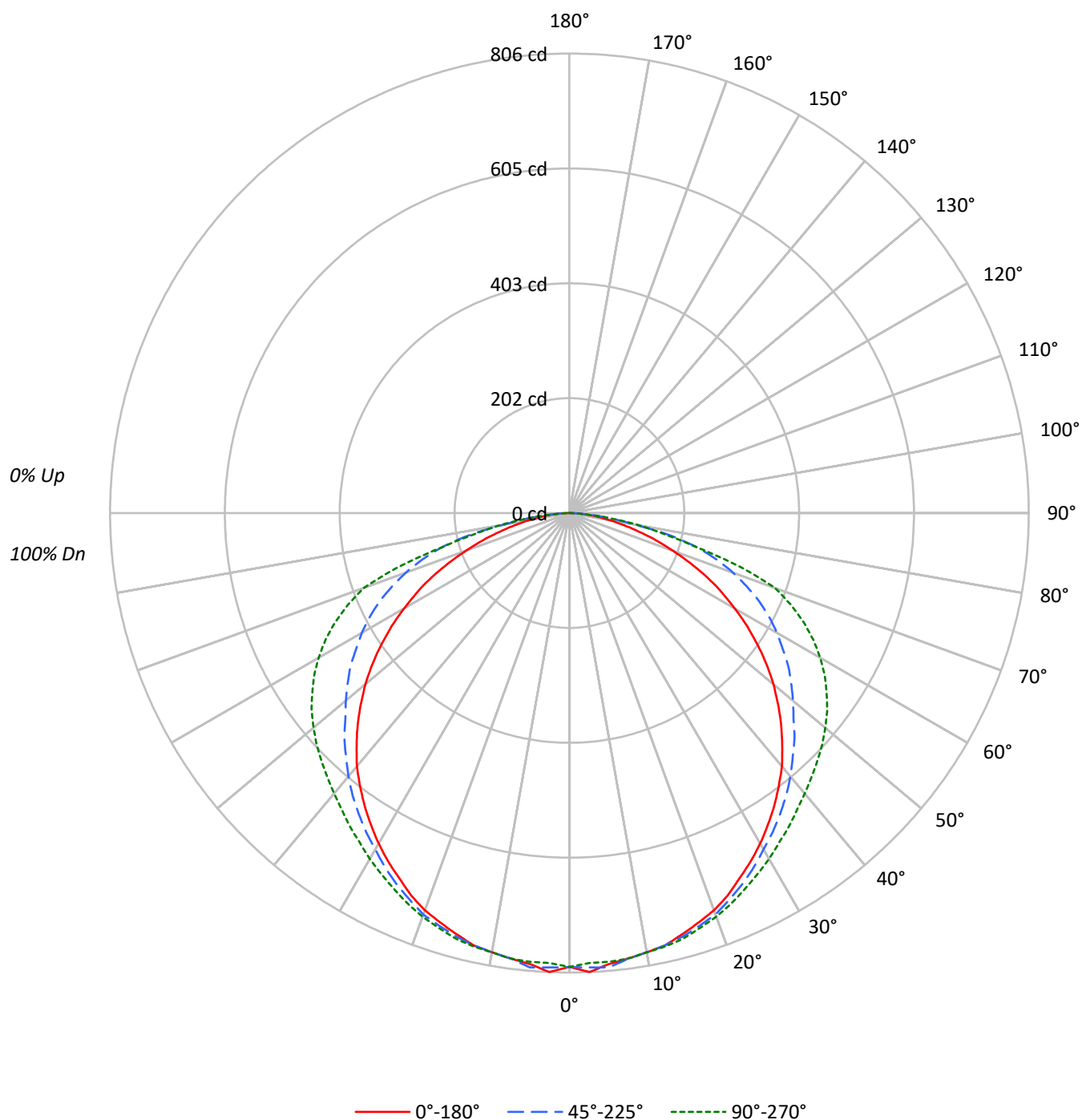
Input Watts (W): 35.247
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P260379

CATALOG NUMBER: 22CZ-LD5-44-SQP-UNV-L92765-W2A1-U-4500K

Luminous Intensity Polar Plot





TEST NUMBER: P260379

CATALOG NUMBER: 22CZ-LD5-44-SQP-UNV-L92765-W2A1-U-4500K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	108	103	99	95	105	101	97	93	97	93	90		93	90	87		89
2	98	89	82	76	95	87	81	75	84	78	73		80	76	71		77
3	89	78	69	62	86	76	68	62	73	66	61		70	64	59		68
4	81	68	59	52	79	67	58	52	64	57	51		62	56	50		60
5	74	61	52	45	72	60	51	44	58	50	44		56	49	43		54
6	68	55	45	39	66	54	45	39	52	44	38		50	43	38		48
7	63	49	40	34	62	49	40	34	47	39	34		45	39	33		44
8	59	45	36	30	57	44	36	30	43	35	30		42	35	30		40
9	55	41	33	27	54	41	33	27	39	32	27		38	32	27		37
10	51	38	30	24	50	37	30	24	36	29	24		35	29	24		35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2142	2142	2142
5°	2145	2161	2134
10°	2138	2138	2138
15°	2131	2142	2152
20°	2123	2146	2157
25°	2098	2132	2161
30°	2080	2117	2177
35°	2059	2116	2206
40°	2037	2119	2256
45°	2000	2125	2340
50°	1955	2143	2452
55°	1890	2200	2584
60°	1801	2263	2733
65°	1698	2342	2888
70°	1516	2404	3017
75°	1315	2408	2387
80°	1116	1779	1931
85°	960	1201	1081



TEST NUMBER: P260379

CATALOG NUMBER: 22CZ-LD5-44-SQP-UNV-L92765-W2A1-U-4500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.6	3.0
10°-20°	217.0	8.7
20°-30°	330.7	13.2
30°-40°	404.7	16.1
40°-50°	435.4	17.4
50°-60°	421.8	16.8
60°-70°	357.3	14.3
70°-80°	216.0	8.6
80°-90°	47.5	1.9
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°	623.4	24.9
0°-40°	1028.0	41.0
0°-60°	1885.3	75.2
0°-90°	2506.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2506.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	796	796	796	796	796	
5°	794	794	800	796	790	75
15°	765	767	769	771	773	216
25°	706	710	718	724	728	326
35°	627	631	644	662	671	392
45°	526	535	558	594	615	405
55°	403	420	469	524	551	360
65°	267	296	368	426	454	263
75°	126	171	232	236	230	136
85°	31	37	39	37	35	35
90°	0	0	0	0	0	



TEST NUMBER: P260379

CATALOG NUMBER: 22CZ-LD5-44-SQP-UNV-L92765-W2A1-U-4500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	796.0	796.0	796.0	796.0	796.0
2.5°	805.7	803.8	797.9	794.0	790.1
5°	794.0	794.0	799.9	796.0	790.1
7.5°	788.2	788.2	788.2	797.9	788.2
10°	782.3	784.3	782.3	790.1	782.3
12.5°	776.5	776.5	776.5	778.5	778.5
15°	764.8	766.8	768.7	770.7	772.6
17.5°	753.2	755.1	759.0	760.9	762.9
20°	741.5	743.4	749.3	749.3	753.2
22.5°	725.9	725.9	733.7	735.6	741.5
25°	706.5	710.3	718.1	724.0	727.9
27.5°	688.9	692.8	700.6	708.4	714.2
30°	669.5	673.4	681.2	692.8	700.6
32.5°	648.1	652.0	663.6	677.3	685.0
35°	626.7	630.6	644.2	661.7	671.4
37.5°	603.3	609.1	624.7	644.2	655.9
40°	580.0	585.8	603.3	624.7	642.2
42.5°	552.7	560.5	580.0	609.1	628.6
45°	525.5	535.2	558.5	593.6	615.0
47.5°	496.3	506.0	533.2	578.0	601.4
50°	467.1	478.8	511.8	560.5	585.8
52.5°	435.9	447.6	490.4	543.0	570.2
55°	402.9	420.4	469.0	523.5	550.8
57.5°	369.8	389.2	443.7	502.1	531.3
60°	334.7	358.1	420.4	478.8	507.9
62.5°	301.7	327.0	395.1	453.5	482.6
65°	266.6	295.8	367.8	426.2	453.5
67.5°	229.6	266.6	336.7	393.1	420.4
70°	192.7	235.5	305.5	358.1	383.4
72.5°	159.6	204.3	270.5	315.3	315.3
75°	126.5	171.3	231.6	235.5	229.6
77.5°	97.3	140.1	181.0	165.4	169.3
80°	72.0	107.0	114.8	120.7	124.6
82.5°	48.7	72.0	74.0	77.8	77.8
85°	31.1	37.0	38.9	37.0	35.0
87.5°	13.6	15.6	11.7	7.8	5.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)