

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: P260342

Luminaire Tested: **22CZ-LD5-24-SQP-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260342
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-LD5-24-SQP-UNV-L92765-W2A1-U-4000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1347.0 lumens
Efficiency: N/A
Efficacy: 75.8 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

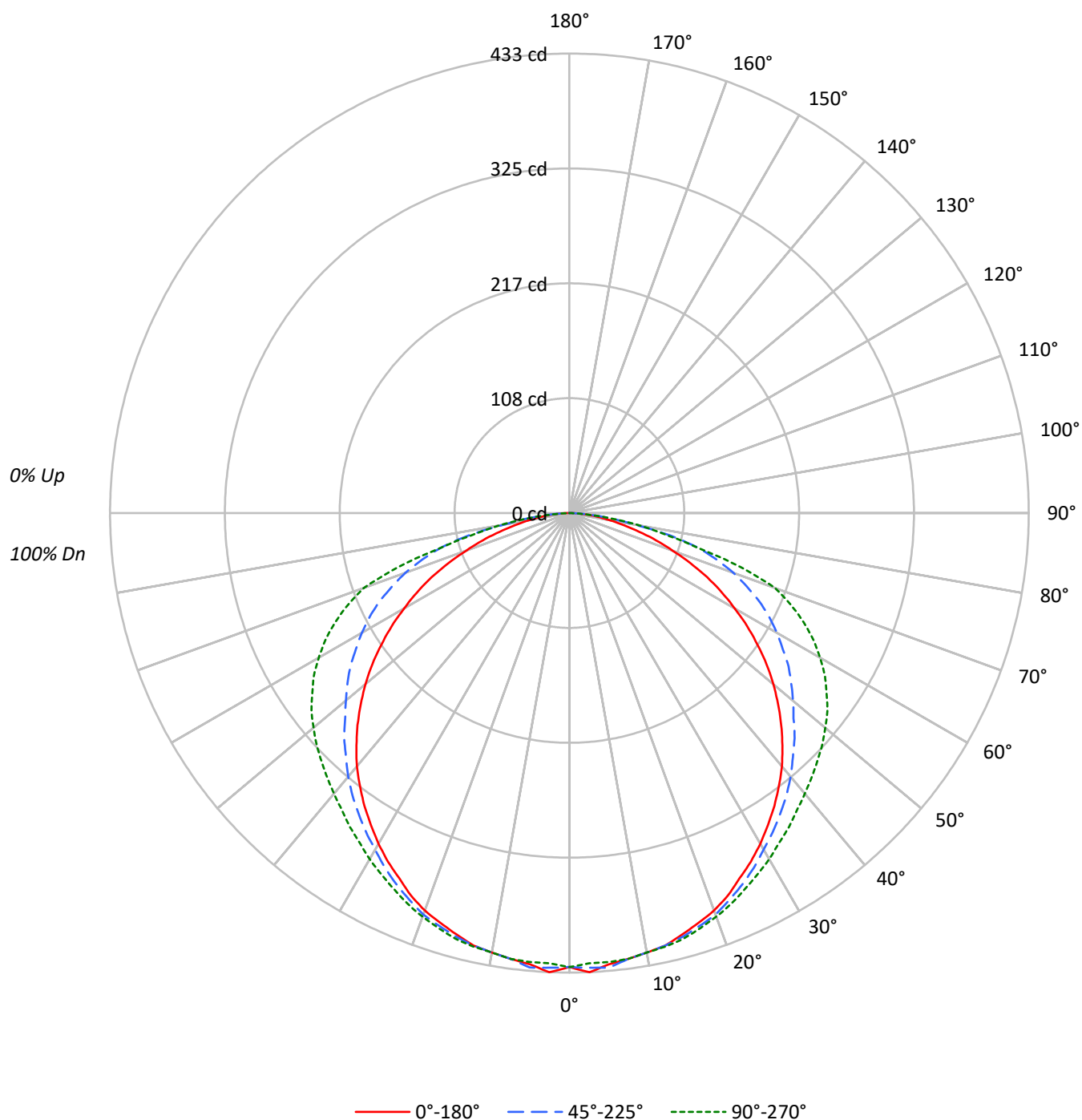
Input Watts (W): 17.763
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P260342

CATALOG NUMBER: 22CZ-LD5-24-SQP-UNV-L92765-W2A1-U-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P260342

CATALOG NUMBER: 22CZ-LD5-24-SQP-UNV-L92765-W2A1-U-4000K

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°	1151	1151	1151
5°	1153	1161	1147
10°	1149	1149	1149
15°	1145	1151	1157
20°	1141	1153	1159
25°	1127	1146	1162
30°	1118	1138	1170
35°	1106	1137	1186
40°	1095	1139	1213
45°	1075	1142	1258
50°	1051	1152	1318
55°	1016	1183	1389
60°	968	1216	1469
65°	912	1259	1552
70°	815	1292	1622
75°	707	1294	1283
80°	600	956	1037
85°	516	645	580



TEST NUMBER: P260342

CATALOG NUMBER: 22CZ-LD5-24-SQP-UNV-L92765-W2A1-U-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.6	3.0
10°-20°	116.7	8.7
20°-30°	177.8	13.2
30°-40°	217.5	16.1
40°-50°	234.1	17.4
50°-60°	226.7	16.8
60°-70°	192.0	14.3
70°-80°	116.1	8.6
80°-90°	25.5	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°	335.1	24.9
0°-40°	552.6	41.0
0°-60°	1013.3	75.2
0°-90°	1347.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1347.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	428	428	428	428	428	
5°	427	427	430	428	425	41
15°	411	412	413	414	415	116
25°	380	382	386	389	391	175
35°	337	339	346	356	361	211
45°	282	288	300	319	331	218
55°	216	226	252	281	296	193
65°	143	159	198	229	244	141
75°	68	92	124	127	123	73
85°	17	20	21	20	19	19
90°	0	0	0	0	0	



TEST NUMBER: P260342

CATALOG NUMBER: 22CZ-LD5-24-SQP-UNV-L92765-W2A1-U-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	427.8	427.8	427.8	427.8	427.8
2.5°	433.1	432.0	428.9	426.8	424.7
5°	426.8	426.8	429.9	427.8	424.7
7.5°	423.7	423.7	423.7	428.9	423.7
10°	420.5	421.6	420.5	424.7	420.5
12.5°	417.4	417.4	417.4	418.4	418.4
15°	411.1	412.2	413.2	414.2	415.3
17.5°	404.8	405.9	408.0	409.0	410.1
20°	398.6	399.6	402.7	402.7	404.8
22.5°	390.2	390.2	394.4	395.4	398.6
25°	379.7	381.8	386.0	389.1	391.2
27.5°	370.3	372.4	376.6	380.8	383.9
30°	359.8	361.9	366.1	372.4	376.6
32.5°	348.3	350.4	356.7	364.0	368.2
35°	336.8	338.9	346.2	355.7	360.9
37.5°	324.3	327.4	335.8	346.2	352.5
40°	311.7	314.9	324.3	335.8	345.2
42.5°	297.1	301.3	311.7	327.4	337.9
45°	282.4	287.7	300.2	319.1	330.6
47.5°	266.7	272.0	286.6	310.7	323.2
50°	251.1	257.3	275.1	301.3	314.9
52.5°	234.3	240.6	263.6	291.9	306.5
55°	216.5	226.0	252.1	281.4	296.0
57.5°	198.8	209.2	238.5	269.9	285.6
60°	179.9	192.5	226.0	257.3	273.0
62.5°	162.1	175.7	212.4	243.7	259.4
65°	143.3	159.0	197.7	229.1	243.7
67.5°	123.4	143.3	181.0	211.3	226.0
70°	103.6	126.6	164.2	192.5	206.1
72.5°	85.8	109.8	145.4	169.5	169.5
75°	68.0	92.1	124.5	126.6	123.4
77.5°	52.3	75.3	97.3	88.9	91.0
80°	38.7	57.5	61.7	64.9	66.9
82.5°	26.2	38.7	39.8	41.8	41.8
85°	16.7	19.9	20.9	19.9	18.8
87.5°	7.3	8.4	6.3	4.2	3.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)