

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: P260383

Luminaire Tested: **22CZ-LD5-44-SQP-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260383
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-6500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2625.0 lumens
Efficiency: N/A
Efficacy: 72.6 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

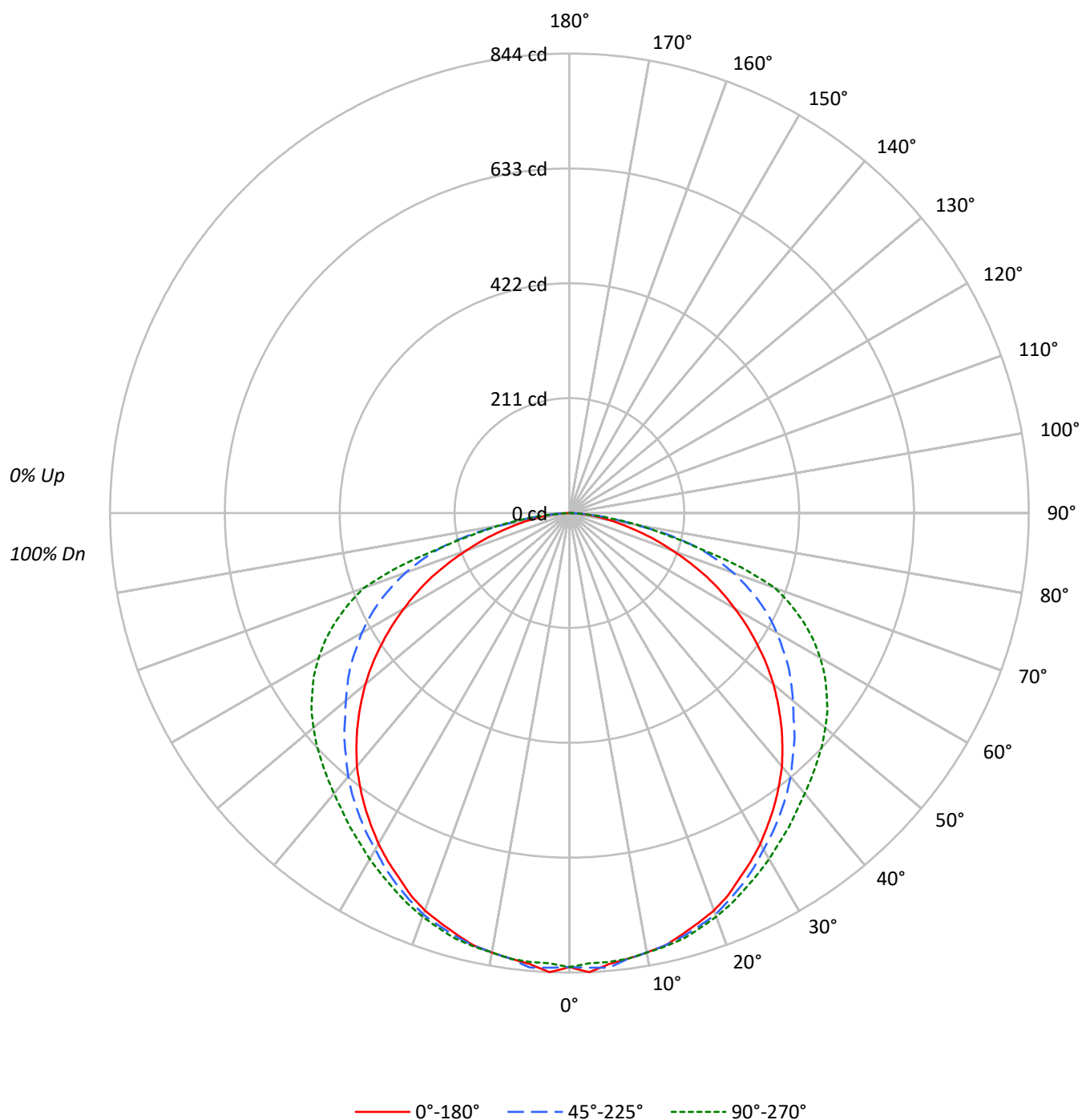
Input Watts (W): 36.177
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P260383

CATALOG NUMBER: 22CZ-LD5-44-SQP-UNV-L92765-W2A1-U-6500K

Luminous Intensity Polar Plot



TEST NUMBER: P260383

CATALOG NUMBER: 22CZ-LD5-44-SQP-UNV-L92765-W2A1-U-6500K

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	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	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83								
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68								
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58	56								
4	81	68	59	52	79	67	58	52	64	57	51	62	56	50	60	54	50	47								
5	74	61	52	45	72	60	51	44	58	50	44	56	49	43	54	48	43	41								
6	68	55	45	39	66	54	45	39	52	44	38	50	43	38	48	42	37	35								
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31								
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	28								
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25								
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24	22								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2244	2244	2244
5°	2247	2263	2236
10°	2239	2239	2239
15°	2232	2243	2255
20°	2224	2247	2259
25°	2197	2233	2264
30°	2179	2217	2280
35°	2156	2217	2310
40°	2134	2220	2363
45°	2095	2227	2452
50°	2048	2244	2569
55°	1980	2305	2707
60°	1887	2370	2864
65°	1778	2453	3025
70°	1588	2519	3160
75°	1378	2522	2501
80°	1168	1864	2022
85°	1007	1260	1133



TEST NUMBER: P260383

CATALOG NUMBER: 22CZ-LD5-44-SQP-UNV-L92765-W2A1-U-6500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.2	3.0
10°-20°	227.3	8.7
20°-30°	346.4	13.2
30°-40°	423.9	16.1
40°-50°	456.1	17.4
50°-60°	441.8	16.8
60°-70°	374.3	14.3
70°-80°	226.2	8.6
80°-90°	49.7	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°	653.0	24.9
0°-40°	1076.9	41.0
0°-60°	1974.8	75.2
0°-90°	2625.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2625.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	834	834	834	834	834	
5°	832	832	838	834	828	79
15°	801	803	805	807	809	226
25°	740	744	752	758	762	342
35°	656	660	675	693	703	411
45°	550	561	585	622	644	424
55°	422	440	491	548	577	377
65°	279	310	385	446	475	275
75°	132	179	243	247	240	142
85°	33	39	41	39	37	37
90°	0	0	0	0	0	



TEST NUMBER: P260383

CATALOG NUMBER: 22CZ-LD5-44-SQP-UNV-L92765-W2A1-U-6500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	833.8	833.8	833.8	833.8	833.8
2.5°	844.0	841.9	835.8	831.7	827.7
5°	831.7	831.7	837.8	833.8	827.7
7.5°	825.6	825.6	825.6	835.8	825.6
10°	819.5	821.5	819.5	827.7	819.5
12.5°	813.4	813.4	813.4	815.4	815.4
15°	801.2	803.2	805.2	807.3	809.3
17.5°	788.9	791.0	795.0	797.1	799.1
20°	776.7	778.7	784.8	784.8	788.9
22.5°	760.4	760.4	768.5	770.6	776.7
25°	740.0	744.1	752.2	758.3	762.4
27.5°	721.6	725.7	733.9	742.0	748.2
30°	701.3	705.3	713.5	725.7	733.9
32.5°	678.8	682.9	695.1	709.4	717.6
35°	656.4	660.5	674.8	693.1	703.3
37.5°	632.0	638.1	654.4	674.8	687.0
40°	607.5	613.6	632.0	654.4	672.7
42.5°	579.0	587.1	607.5	638.1	658.5
45°	550.4	560.6	585.1	621.8	644.2
47.5°	519.8	530.0	558.6	605.5	629.9
50°	489.3	501.5	536.1	587.1	613.6
52.5°	456.6	468.9	513.7	568.8	597.3
55°	422.0	440.3	491.3	548.4	576.9
57.5°	387.3	407.7	464.8	525.9	556.5
60°	350.6	375.1	440.3	501.5	532.1
62.5°	316.0	342.5	413.8	475.0	505.6
65°	279.3	309.9	385.3	446.4	475.0
67.5°	240.5	279.3	352.7	411.8	440.3
70°	201.8	246.7	320.1	375.1	401.6
72.5°	167.2	214.0	283.4	330.2	330.2
75°	132.5	179.4	242.6	246.7	240.5
77.5°	101.9	146.8	189.6	173.3	177.4
80°	75.4	112.1	120.3	126.4	130.5
82.5°	51.0	75.4	77.5	81.5	81.5
85°	32.6	38.7	40.8	38.7	36.7
87.5°	14.3	16.3	12.2	8.2	6.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)