

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: P263408

Luminaire Tested: **24CZ-LD5-55-SQP-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263408
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25695)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-55-SQP-UNV-L92765-W2A1-U-5500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3449.0 lumens
Efficiency: N/A
Efficacy: 83.7 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.31 / 1.42
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

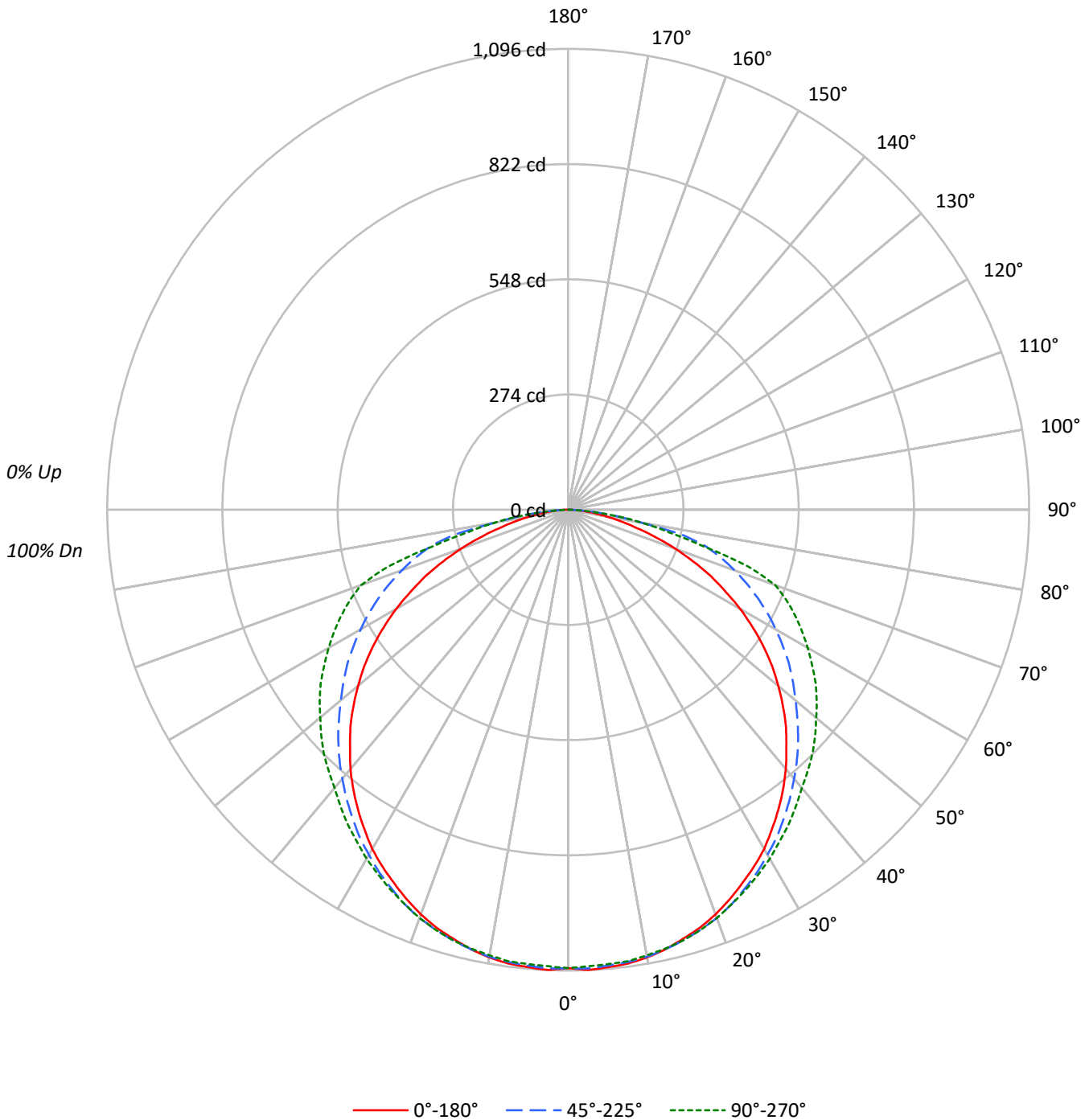
Input Watts (W): 41.199
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P263408

CATALOG NUMBER: 24CZ-LD5-55-SQP-UNV-L92765-W2A1-U-5500K

Luminous Intensity Polar Plot





TEST NUMBER: P263408

CATALOG NUMBER: 24CZ-LD5-55-SQP-UNV-L92765-W2A1-U-5500K

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					100			
1	108	103	98	94	105	101	97	93	96	93	90	92	90	87	89	87	84	82					82			
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67					67			
3	89	78	69	62	86	76	68	62	73	66	60	70	64	59	67	63	58	56					56			
4	81	68	59	52	79	67	58	52	64	57	51	62	56	50	60	54	50	47					47			
5	74	61	51	45	72	60	51	44	57	50	44	55	49	43	54	48	43	41					41			
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35					35			
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31					31			
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	28					28			
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25					25			
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24	22					22			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1467	1467	1467
5°	1475	1470	1465
10°	1477	1475	1470
15°	1472	1477	1477
20°	1467	1480	1480
25°	1455	1476	1481
30°	1448	1473	1489
35°	1431	1469	1501
40°	1414	1467	1518
45°	1393	1471	1563
50°	1365	1477	1611
55°	1329	1504	1684
60°	1270	1534	1769
65°	1191	1582	1894
70°	1065	1654	2061
75°	880	1769	1704
80°	717	1367	1381
85°	577	908	852



TEST NUMBER: P263408

CATALOG NUMBER: 24CZ-LD5-55-SQP-UNV-L92765-W2A1-U-5500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.5	3.0
10°-20°	298.8	8.7
20°-30°	456.7	13.2
30°-40°	558.5	16.2
40°-50°	597.6	17.3
50°-60°	572.3	16.6
60°-70°	484.1	14.0
70°-80°	306.9	8.9
80°-90°	70.6	2.0
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°	859.0	24.9
0°-40°	1417.5	41.1
0°-60°	2587.4	75.0
0°-90°	3449.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3449.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1090	1090	1090	1090	1090	
5°	1092	1087	1088	1087	1085	104
15°	1056	1055	1060	1060	1060	298
25°	980	980	994	998	998	452
35°	871	876	894	907	914	545
45°	732	745	773	805	821	564
55°	566	584	641	695	718	505
65°	374	410	497	565	595	369
75°	169	239	340	338	328	184
85°	37	57	59	53	55	45
90°	0	0	0	0	0	



TEST NUMBER: P263408

CATALOG NUMBER: 24CZ-LD5-55-SQP-UNV-L92765-W2A1-U-5500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1090.3	1090.3	1090.3	1090.3	1090.3
2.5°	1095.6	1090.3	1092.1	1090.3	1086.7
5°	1092.1	1086.7	1088.5	1086.7	1084.9
7.5°	1088.5	1083.2	1084.9	1083.2	1083.2
10°	1081.4	1076.0	1079.6	1077.8	1076.0
12.5°	1070.7	1067.1	1070.7	1068.9	1068.9
15°	1056.4	1054.7	1060.0	1060.0	1060.0
17.5°	1042.2	1040.4	1047.5	1047.5	1047.5
20°	1024.4	1022.6	1033.3	1033.3	1033.3
22.5°	1003.0	1001.2	1015.5	1015.5	1015.5
25°	979.8	979.8	994.1	997.7	997.7
27.5°	956.7	956.7	972.7	978.1	978.1
30°	931.7	931.7	947.8	954.9	958.5
32.5°	901.5	905.0	922.8	931.7	935.3
35°	871.2	876.5	894.3	906.8	913.9
37.5°	839.1	844.4	865.8	880.1	889.0
40°	805.2	812.4	835.5	853.4	864.0
42.5°	767.8	778.5	805.2	828.4	842.7
45°	732.2	744.7	773.2	805.2	821.3
47.5°	693.0	707.3	739.3	780.3	796.3
50°	652.0	666.3	705.5	751.8	769.6
52.5°	611.1	627.1	673.4	723.3	744.7
55°	566.5	584.3	641.3	694.8	718.0
57.5°	520.2	541.6	605.7	662.7	687.7
60°	472.1	498.8	570.1	630.7	657.4
62.5°	422.2	454.3	534.5	598.6	627.1
65°	374.1	409.8	497.0	564.7	595.0
67.5°	322.5	367.0	459.6	532.7	561.2
70°	270.8	322.5	420.4	495.3	523.8
72.5°	219.1	281.5	381.2	448.9	448.9
75°	169.2	238.7	340.3	338.5	327.8
77.5°	128.3	199.5	279.7	238.7	240.5
80°	92.6	160.3	176.4	176.4	178.2
82.5°	62.4	122.9	114.0	112.2	115.8
85°	37.4	57.0	58.8	53.4	55.2
87.5°	17.8	19.6	16.0	10.7	10.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)