

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: P263098

Luminaire Tested: **24CZ-LD5-55-SQP-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263098
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-L83050-W2A1-U-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3674.0 lumens
Efficiency: N/A
Efficacy: 91.7 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

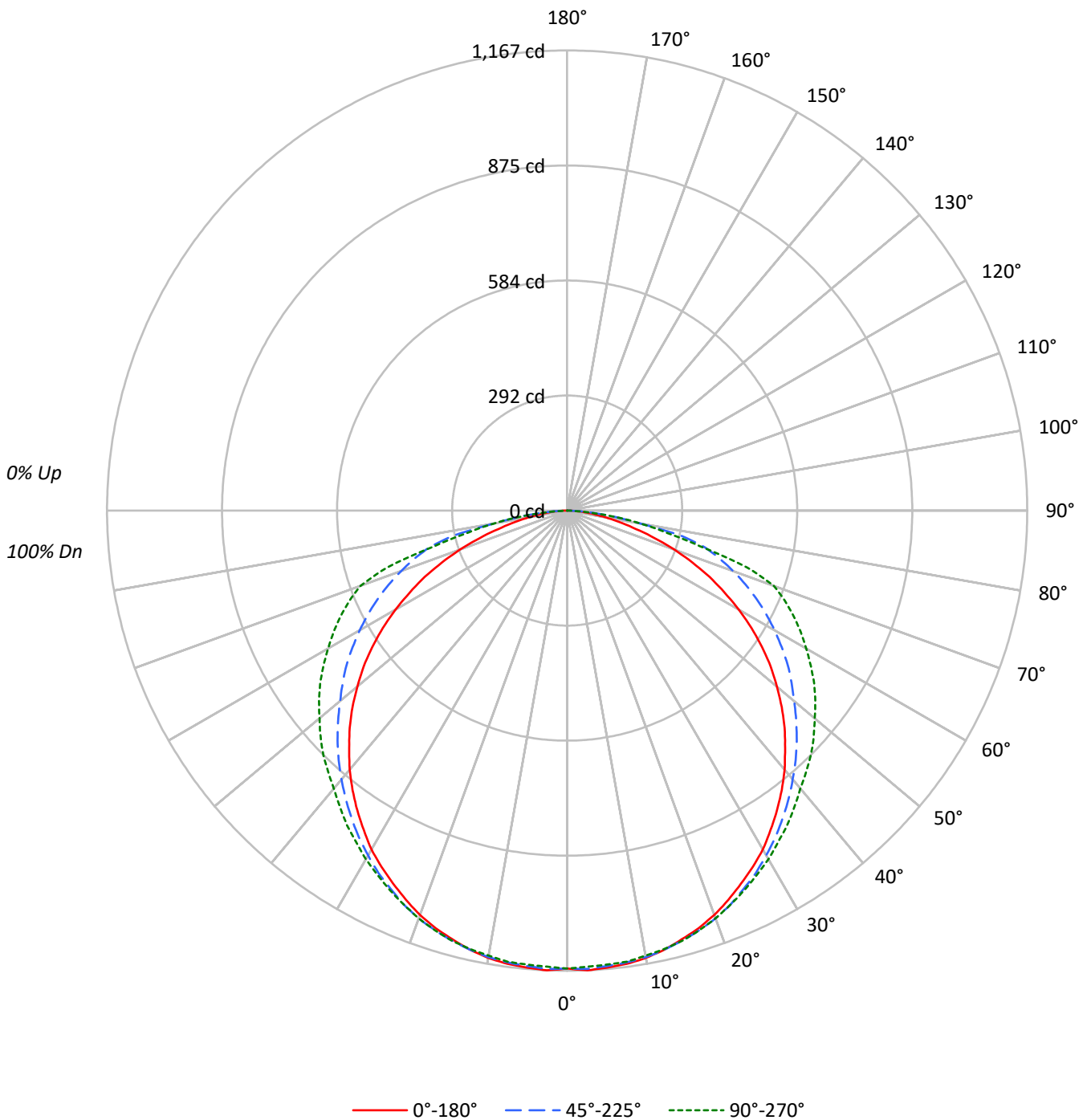
Input Watts (W): 40.083
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P263098

CATALOG NUMBER: 24CZ-LD5-55-SQP-UNV-L83050-W2A1-U-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P263098

CATALOG NUMBER: 24CZ-LD5-55-SQP-UNV-L83050-W2A1-U-3500K

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	98	94	105	101	97	93	96	93	90	92	90	87	89	87	84	82
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	60	70	64	59	67	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	51	45	72	60	51	44	57	50	44	55	49	43	54	48	43	41
6	68	55	45	39	66	54	45	38	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°	1563	1563	1563
5°	1571	1566	1561
10°	1574	1571	1566
15°	1568	1573	1573
20°	1562	1576	1576
25°	1550	1572	1578
30°	1542	1569	1586
35°	1524	1565	1599
40°	1507	1563	1617
45°	1484	1567	1665
50°	1454	1573	1716
55°	1416	1603	1794
60°	1353	1634	1884
65°	1269	1686	2018
70°	1135	1762	2195
75°	937	1884	1815
80°	765	1456	1471
85°	616	966	908



TEST NUMBER: P263098

CATALOG NUMBER: 24CZ-LD5-55-SQP-UNV-L83050-W2A1-U-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.3	3.0
10°-20°	318.3	8.7
20°-30°	486.5	13.2
30°-40°	595.0	16.2
40°-50°	636.6	17.3
50°-60°	609.6	16.6
60°-70°	515.7	14.0
70°-80°	326.9	8.9
80°-90°	75.2	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°	915.1	24.9
0°-40°	1510.0	41.1
0°-60°	2756.2	75.0
0°-90°	3674.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3674.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1161	1161	1161	1161	1161	
5°	1163	1158	1160	1158	1156	111
15°	1125	1124	1129	1129	1129	318
25°	1044	1044	1059	1063	1063	482
35°	928	934	953	966	974	581
45°	780	793	824	858	875	601
55°	604	622	683	740	765	538
65°	398	436	530	602	634	393
75°	180	254	362	361	349	196
85°	40	61	63	57	59	48
90°	0	0	0	0	0	



TEST NUMBER: P263098

CATALOG NUMBER: 24CZ-LD5-55-SQP-UNV-L83050-W2A1-U-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1161.4	1161.4	1161.4	1161.4	1161.4
2.5°	1167.1	1161.4	1163.3	1161.4	1157.6
5°	1163.3	1157.6	1159.5	1157.6	1155.7
7.5°	1159.5	1153.8	1155.7	1153.8	1153.8
10°	1151.9	1146.2	1150.0	1148.1	1146.2
12.5°	1140.5	1136.7	1140.5	1138.6	1138.6
15°	1125.4	1123.5	1129.2	1129.2	1129.2
17.5°	1110.2	1108.3	1115.9	1115.9	1115.9
20°	1091.2	1089.3	1100.7	1100.7	1100.7
22.5°	1068.4	1066.5	1081.7	1081.7	1081.7
25°	1043.8	1043.8	1058.9	1062.7	1062.7
27.5°	1019.1	1019.1	1036.2	1041.9	1041.9
30°	992.5	992.5	1009.6	1017.2	1021.0
32.5°	960.3	964.1	983.0	992.5	996.3
35°	928.0	933.7	952.7	966.0	973.5
37.5°	893.8	899.5	922.3	937.5	947.0
40°	857.8	865.4	890.0	909.0	920.4
42.5°	817.9	829.3	857.8	882.5	897.6
45°	780.0	793.3	823.6	857.8	874.9
47.5°	738.2	753.4	787.6	831.2	848.3
50°	694.6	709.8	751.5	800.8	819.8
52.5°	650.9	668.0	717.3	770.5	793.3
55°	603.5	622.5	683.2	740.1	764.8
57.5°	554.1	576.9	645.2	706.0	732.5
60°	502.9	531.4	607.3	671.8	700.3
62.5°	449.8	483.9	569.3	637.6	668.0
65°	398.5	436.5	529.5	601.6	633.8
67.5°	343.5	390.9	489.6	567.4	597.8
70°	288.5	343.5	447.9	527.6	557.9
72.5°	233.4	299.8	406.1	478.2	478.2
75°	180.3	254.3	362.5	360.6	349.2
77.5°	136.6	212.5	297.9	254.3	256.2
80°	98.7	170.8	187.9	187.9	189.8
82.5°	66.4	130.9	121.5	119.6	123.4
85°	39.9	60.7	62.6	56.9	58.8
87.5°	19.0	20.9	17.1	11.4	11.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)