

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: P263829

Luminaire Tested: **24CZ-LD5-55-RDP-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263829
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25696)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-55-RDP-UNV-L92765-W2A1-U-5700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3636.0 lumens
Efficiency: N/A
Efficacy: 88.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

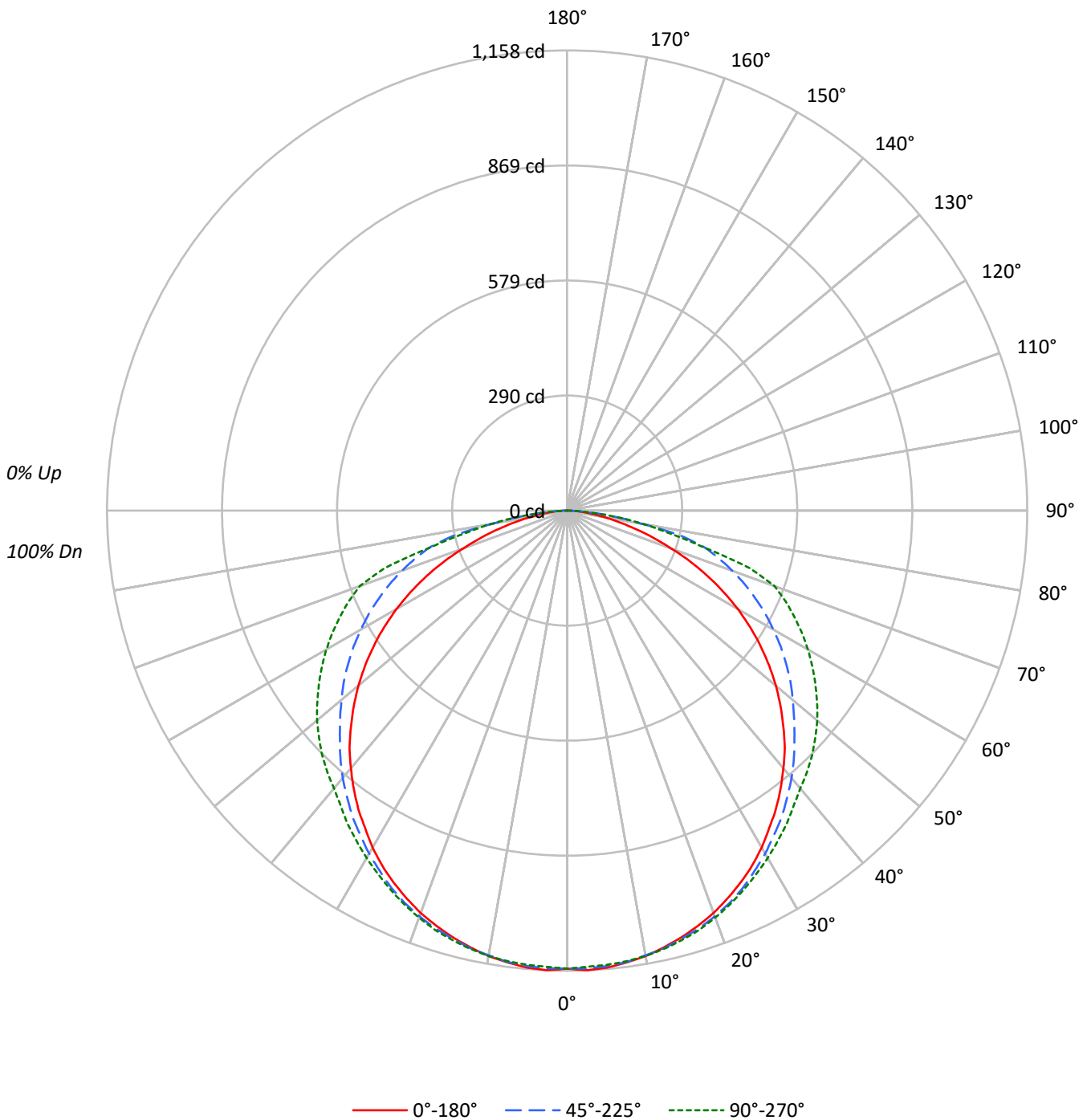
Input Watts (W): 41.292
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P263829

CATALOG NUMBER: 24CZ-LD5-55-RDP-UNV-L92765-W2A1-U-5700K

Luminous Intensity Polar Plot





TEST NUMBER: P263829

CATALOG NUMBER: 24CZ-LD5-55-RDP-UNV-L92765-W2A1-U-5700K

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	62	58	56
4	81	68	59	52	78	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	61	48	40	34	47	39	34	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	27
9	55	41	33	27	53	41	32	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°	1551	1551	1551
5°	1559	1554	1550
10°	1555	1553	1555
15°	1548	1553	1558
20°	1543	1556	1561
25°	1533	1554	1562
30°	1521	1549	1568
35°	1505	1546	1582
40°	1487	1544	1603
45°	1464	1539	1658
50°	1435	1551	1720
55°	1394	1579	1789
60°	1334	1614	1883
65°	1242	1664	2006
70°	1098	1739	2183
75°	921	1861	1833
80°	735	1470	1526
85°	580	994	912



TEST NUMBER: P263829

CATALOG NUMBER: 24CZ-LD5-55-RDP-UNV-L92765-W2A1-U-5700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.3	3.0
10°-20°	314.6	8.7
20°-30°	480.6	13.2
30°-40°	587.5	16.2
40°-50°	628.9	17.3
50°-60°	603.2	16.6
60°-70°	509.3	14.0
70°-80°	325.5	9.0
80°-90°	77.0	2.1
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°	904.5	24.9
0°-40°	1492.1	41.0
0°-60°	2724.2	74.9
0°-90°	3636.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3636.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1153	1153	1153	1153	1153	
5°	1154	1147	1151	1149	1147	110
15°	1112	1108	1115	1119	1119	314
25°	1033	1031	1047	1051	1052	476
35°	916	924	941	954	963	573
45°	770	782	809	847	872	594
55°	594	614	673	734	762	530
65°	390	428	523	596	630	385
75°	177	252	358	365	353	191
85°	38	63	64	63	59	45
90°	0	0	0	0	0	



TEST NUMBER: P263829

CATALOG NUMBER: 24CZ-LD5-55-RDP-UNV-L92765-W2A1-U-5700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1152.6	1152.6	1152.6	1152.6	1152.6
2.5°	1158.0	1150.9	1152.6	1152.6	1149.1
5°	1154.4	1147.3	1150.9	1149.1	1147.3
7.5°	1147.3	1141.9	1145.5	1145.5	1143.7
10°	1138.3	1133.0	1136.5	1138.3	1138.3
12.5°	1125.8	1122.2	1127.6	1127.6	1129.4
15°	1111.5	1107.9	1115.1	1118.6	1118.6
17.5°	1095.4	1093.6	1102.5	1104.3	1106.1
20°	1077.5	1075.7	1086.4	1086.4	1090.0
22.5°	1056.0	1054.2	1068.5	1068.5	1072.1
25°	1032.7	1030.9	1047.0	1050.6	1052.4
27.5°	1007.7	1005.9	1022.0	1027.4	1030.9
30°	979.0	979.0	996.9	1004.1	1009.5
32.5°	946.8	952.2	968.3	979.0	986.2
35°	916.4	923.5	941.4	954.0	962.9
37.5°	882.4	889.5	909.2	925.3	936.1
40°	846.6	855.5	878.8	896.7	912.8
42.5°	810.8	819.7	844.8	871.6	893.1
45°	769.6	782.2	809.0	846.6	871.6
47.5°	728.5	741.0	775.0	821.5	846.6
50°	685.5	699.8	741.0	794.7	821.5
52.5°	640.8	656.9	708.8	766.0	792.9
55°	594.2	613.9	673.0	733.8	762.5
57.5°	545.9	567.4	637.2	701.6	732.0
60°	495.8	522.6	599.6	667.6	699.8
62.5°	443.9	476.1	562.0	631.8	665.8
65°	390.2	427.8	522.6	596.0	630.0
67.5°	334.7	384.8	483.3	560.2	594.2
70°	279.2	338.3	442.1	520.8	554.8
72.5°	227.3	295.3	400.9	474.3	481.5
75°	177.2	252.4	358.0	365.1	352.6
77.5°	132.4	209.4	295.3	263.1	261.3
80°	94.9	168.2	189.7	195.1	196.9
82.5°	62.6	127.1	123.5	127.1	125.3
85°	37.6	62.6	64.4	62.6	59.1
87.5°	17.9	23.3	17.9	16.1	14.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)