

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: P263684

Luminaire Tested: **24CZ-LD5-50-RDP-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263684
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-LD5-50-RDP-UNV-L82765-W2A1-U-5500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3632.0 lumens
Efficiency: N/A
Efficacy: 98.9 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

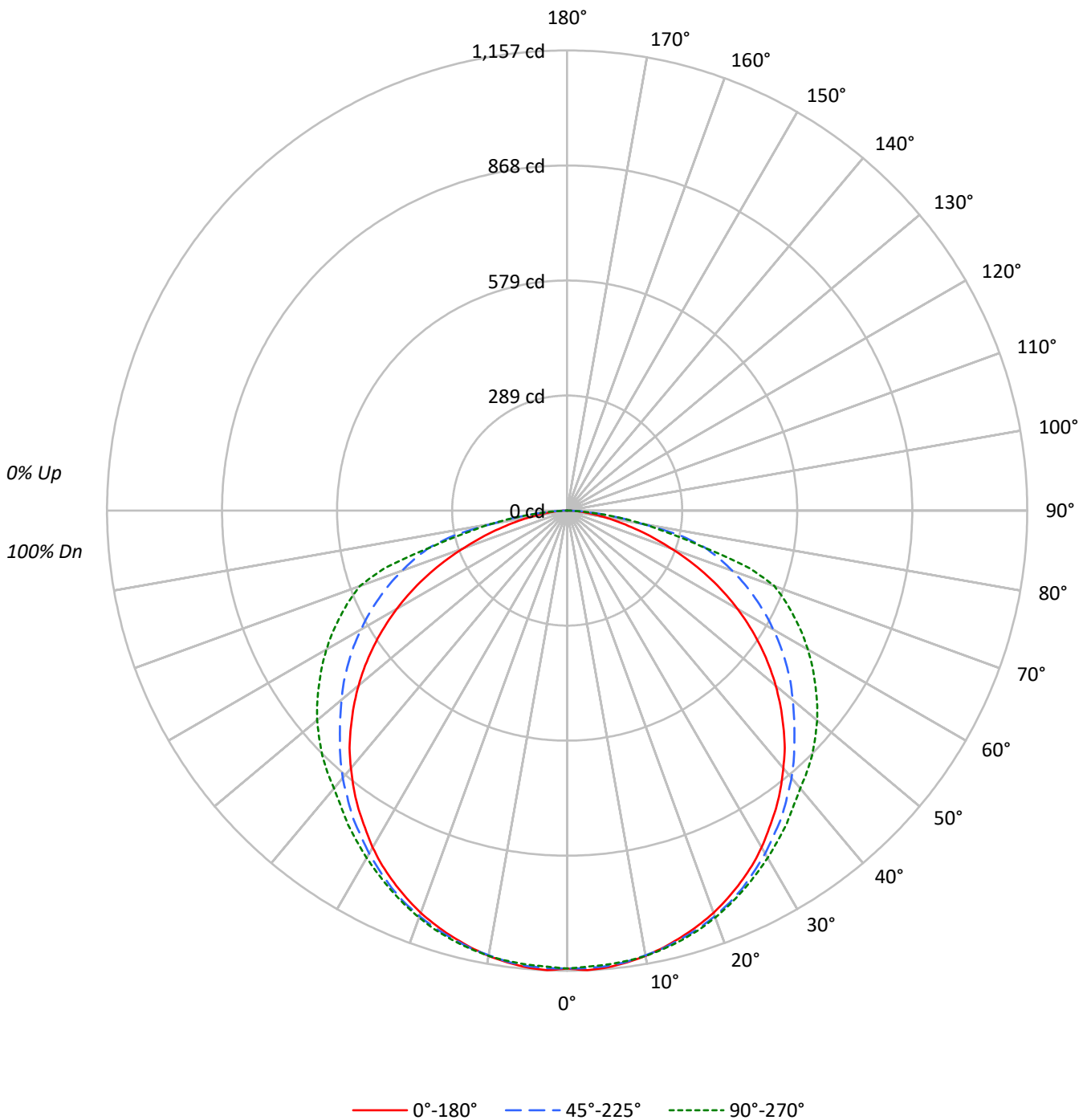
Input Watts (W): 36.735
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P263684

CATALOG NUMBER: 24CZ-LD5-50-RDP-UNV-L82765-W2A1-U-5500K

Luminous Intensity Polar Plot





TEST NUMBER: P263684

CATALOG NUMBER: 24CZ-LD5-50-RDP-UNV-L82765-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	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	61	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°	1549	1549	1549
5°	1558	1553	1548
10°	1554	1551	1554
15°	1547	1551	1556
20°	1541	1554	1559
25°	1531	1553	1561
30°	1519	1547	1567
35°	1504	1545	1580
40°	1485	1542	1601
45°	1463	1538	1657
50°	1433	1549	1718
55°	1392	1577	1787
60°	1333	1612	1881
65°	1241	1662	2004
70°	1097	1737	2180
75°	920	1859	1831
80°	735	1468	1524
85°	579	994	911



TEST NUMBER: P263684

CATALOG NUMBER: 24CZ-LD5-50-RDP-UNV-L82765-W2A1-U-5500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.2	3.0
10°-20°	314.3	8.7
20°-30°	480.0	13.2
30°-40°	586.9	16.2
40°-50°	628.2	17.3
50°-60°	602.5	16.6
60°-70°	508.8	14.0
70°-80°	325.2	9.0
80°-90°	76.9	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°	903.5	24.9
0°-40°	1490.4	41.0
0°-60°	2721.2	74.9
0°-90°	3632.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3632.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1151	1151	1151	1151	1151	
5°	1153	1146	1150	1148	1146	110
15°	1110	1107	1114	1117	1117	313
25°	1032	1030	1046	1050	1051	475
35°	915	922	940	953	962	572
45°	769	781	808	846	871	593
55°	594	613	672	733	762	530
65°	390	427	522	595	629	384
75°	177	252	358	365	352	191
85°	38	63	64	63	59	45
90°	0	0	0	0	0	



TEST NUMBER: P263684

CATALOG NUMBER: 24CZ-LD5-50-RDP-UNV-L82765-W2A1-U-5500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1151.4	1151.4	1151.4	1151.4	1151.4
2.5°	1156.7	1149.6	1151.4	1151.4	1147.8
5°	1153.2	1146.0	1149.6	1147.8	1146.0
7.5°	1146.0	1140.6	1144.2	1144.2	1142.4
10°	1137.1	1131.7	1135.3	1137.1	1137.1
12.5°	1124.6	1121.0	1126.3	1126.3	1128.1
15°	1110.3	1106.7	1113.8	1117.4	1117.4
17.5°	1094.2	1092.4	1101.3	1103.1	1104.9
20°	1076.3	1074.5	1085.2	1085.2	1088.8
22.5°	1054.8	1053.0	1067.3	1067.3	1070.9
25°	1031.6	1029.8	1045.9	1049.5	1051.3
27.5°	1006.6	1004.8	1020.9	1026.2	1029.8
30°	978.0	978.0	995.8	1003.0	1008.3
32.5°	945.8	951.1	967.2	978.0	985.1
35°	915.4	922.5	940.4	952.9	961.9
37.5°	881.4	888.6	908.2	924.3	935.0
40°	845.7	854.6	877.8	895.7	911.8
42.5°	809.9	818.8	843.9	870.7	892.1
45°	768.8	781.3	808.1	845.7	870.7
47.5°	727.7	740.2	774.1	820.6	845.7
50°	684.7	699.0	740.2	793.8	820.6
52.5°	640.0	656.1	708.0	765.2	792.0
55°	593.6	613.2	672.2	733.0	761.6
57.5°	545.3	566.7	636.5	700.8	731.2
60°	495.2	522.1	598.9	666.9	699.0
62.5°	443.4	475.6	561.4	631.1	665.1
65°	389.8	427.3	522.1	595.4	629.3
67.5°	334.3	384.4	482.7	559.6	593.6
70°	278.9	337.9	441.6	520.3	554.2
72.5°	227.1	295.0	400.5	473.8	480.9
75°	177.0	252.1	357.6	364.7	352.2
77.5°	132.3	209.2	295.0	262.8	261.0
80°	94.8	168.1	189.5	194.9	196.7
82.5°	62.6	126.9	123.4	126.9	125.1
85°	37.5	62.6	64.4	62.6	59.0
87.5°	17.9	23.2	17.9	16.1	14.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)