

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: P263799

Luminaire Tested: **24CZ-LD5-40-RDP-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263799
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-LD5-40-RDP-UNV-L92765-W2A1-U-4500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2565.0 lumens
Efficiency: N/A
Efficacy: 89.0 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

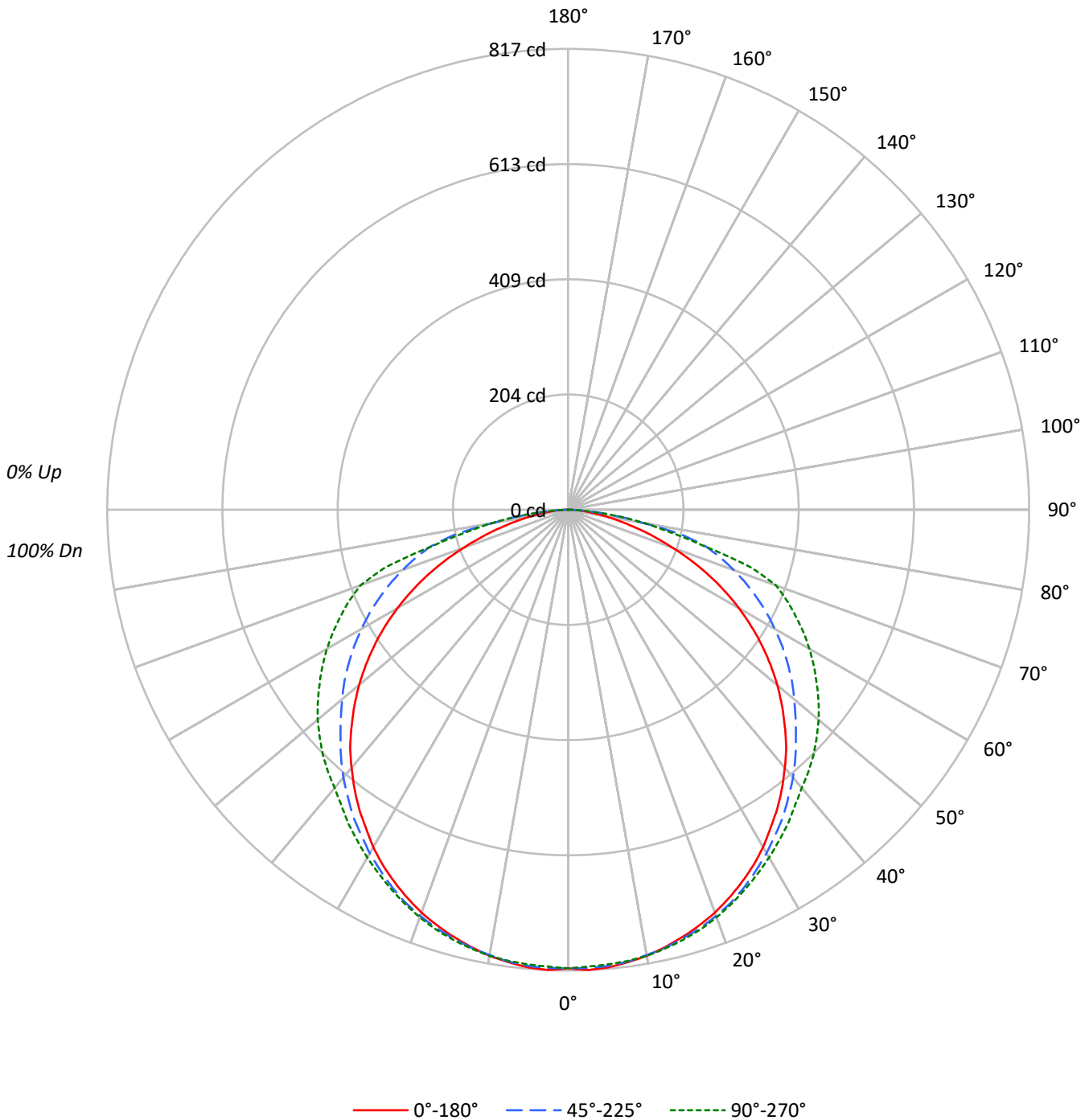
Input Watts (W): 28.83
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P263799

CATALOG NUMBER: 24CZ-LD5-40-RDP-UNV-L92765-W2A1-U-4500K

Luminous Intensity Polar Plot





TEST NUMBER: P263799

CATALOG NUMBER: 24CZ-LD5-40-RDP-UNV-L92765-W2A1-U-4500K

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°	1094	1094	1094
5°	1100	1097	1093
10°	1097	1095	1097
15°	1092	1096	1099
20°	1088	1097	1101
25°	1082	1097	1102
30°	1073	1093	1106
35°	1062	1091	1116
40°	1049	1089	1131
45°	1033	1086	1170
50°	1012	1094	1213
55°	983	1114	1262
60°	941	1138	1329
65°	876	1174	1415
70°	775	1227	1540
75°	650	1313	1293
80°	518	1037	1076
85°	409	702	644



TEST NUMBER: P263799

CATALOG NUMBER: 24CZ-LD5-40-RDP-UNV-L92765-W2A1-U-4500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.1	3.0
10°-20°	222.0	8.7
20°-30°	339.0	13.2
30°-40°	414.5	16.2
40°-50°	443.6	17.3
50°-60°	425.5	16.6
60°-70°	359.3	14.0
70°-80°	229.6	9.0
80°-90°	54.3	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°	638.1	24.9
0°-40°	1052.6	41.0
0°-60°	1921.8	74.9
0°-90°	2565.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2565.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	813	813	813	813	813	
5°	814	809	812	811	809	77
15°	784	782	787	789	789	221
25°	728	727	739	741	742	336
35°	646	652	664	673	679	404
45°	543	552	571	597	615	419
55°	419	433	475	518	538	374
65°	275	302	369	420	444	271
75°	125	178	252	258	249	135
85°	26	44	46	44	42	32
90°	0	0	0	0	0	



TEST NUMBER: P263799

CATALOG NUMBER: 24CZ-LD5-40-RDP-UNV-L92765-W2A1-U-4500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	813.1	813.1	813.1	813.1	813.1
2.5°	816.9	811.9	813.1	813.1	810.6
5°	814.4	809.3	811.9	810.6	809.3
7.5°	809.3	805.6	808.1	808.1	806.8
10°	803.0	799.2	801.8	803.0	803.0
12.5°	794.2	791.7	795.4	795.4	796.7
15°	784.1	781.6	786.6	789.1	789.1
17.5°	772.7	771.5	777.8	779.0	780.3
20°	760.1	758.8	766.4	766.4	768.9
22.5°	744.9	743.7	753.8	753.8	756.3
25°	728.5	727.3	738.6	741.2	742.4
27.5°	710.9	709.6	721.0	724.7	727.3
30°	690.7	690.7	703.3	708.3	712.1
32.5°	667.9	671.7	683.1	690.7	695.7
35°	646.5	651.5	664.1	673.0	679.3
37.5°	622.5	627.5	641.4	652.8	660.3
40°	597.2	603.5	619.9	632.6	643.9
42.5°	572.0	578.3	596.0	614.9	630.0
45°	542.9	551.8	570.7	597.2	614.9
47.5°	513.9	522.7	546.7	579.5	597.2
50°	483.6	493.7	522.7	560.6	579.5
52.5°	452.0	463.4	500.0	540.4	559.3
55°	419.2	433.1	474.7	517.7	537.9
57.5°	385.1	400.3	449.5	494.9	516.4
60°	349.7	368.7	423.0	471.0	493.7
62.5°	313.1	335.9	396.5	445.7	469.7
65°	275.3	301.8	368.7	420.5	444.4
67.5°	236.1	271.5	340.9	395.2	419.2
70°	197.0	238.6	311.9	367.4	391.4
72.5°	160.4	208.3	282.8	334.6	339.6
75°	125.0	178.0	252.5	257.6	248.7
77.5°	93.4	147.7	208.3	185.6	184.3
80°	66.9	118.7	133.8	137.6	138.9
82.5°	44.2	89.6	87.1	89.6	88.4
85°	26.5	44.2	45.5	44.2	41.7
87.5°	12.6	16.4	12.6	11.4	10.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)