

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: P263513

Luminaire Tested: **24CZ-LD5-50-RDP-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263513
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-L83050-W2A1-U-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3493.0 lumens
Efficiency: N/A
Efficacy: 97.8 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

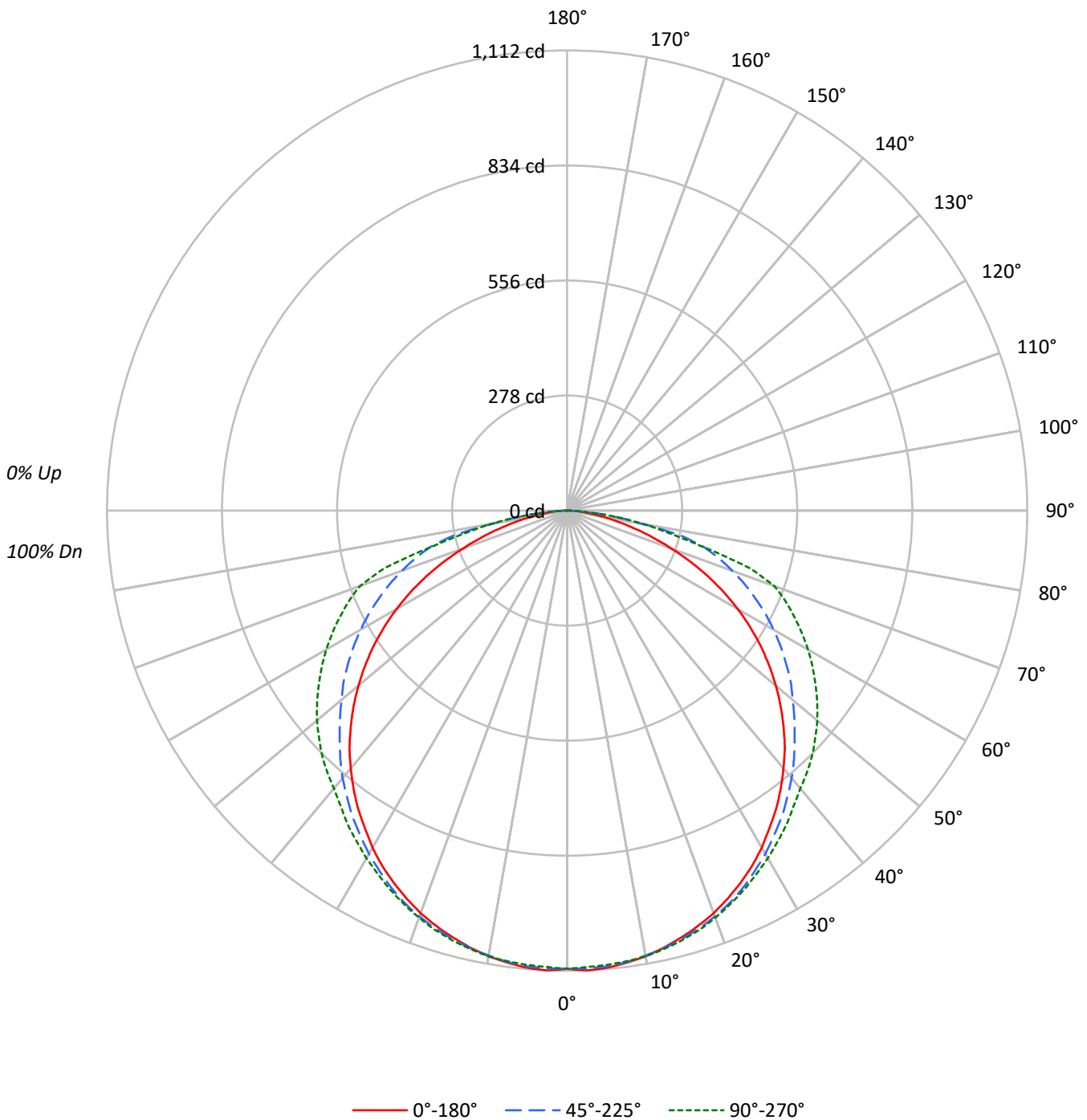
Input Watts (W): 35.712
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P263513

CATALOG NUMBER: 24CZ-LD5-50-RDP-UNV-L83050-W2A1-U-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P263513

CATALOG NUMBER: 24CZ-LD5-50-RDP-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	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°	1490	1490	1490
5°	1498	1493	1489
10°	1494	1492	1494
15°	1487	1492	1497
20°	1482	1494	1499
25°	1473	1493	1501
30°	1461	1488	1507
35°	1446	1486	1520
40°	1428	1483	1540
45°	1407	1479	1593
50°	1378	1490	1652
55°	1339	1517	1718
60°	1282	1550	1809
65°	1193	1599	1927
70°	1055	1671	2097
75°	885	1788	1761
80°	706	1413	1465
85°	557	956	875



TEST NUMBER: P263513

CATALOG NUMBER: 24CZ-LD5-50-RDP-UNV-L83050-W2A1-U-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.0	3.0
10°-20°	302.3	8.7
20°-30°	461.7	13.2
30°-40°	564.4	16.2
40°-50°	604.2	17.3
50°-60°	579.5	16.6
60°-70°	489.3	14.0
70°-80°	312.7	9.0
80°-90°	74.0	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°	869.0	24.9
0°-40°	1433.4	41.0
0°-60°	2617.0	74.9
0°-90°	3493.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3493.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1107	1107	1107	1107	1107	
5°	1109	1102	1106	1104	1102	105
15°	1068	1064	1071	1075	1075	301
25°	992	990	1006	1009	1011	457
35°	880	887	904	916	925	550
45°	739	751	777	813	837	570
55°	571	590	646	705	732	509
65°	375	411	502	573	605	370
75°	170	242	344	351	339	183
85°	36	60	62	60	57	43
90°	0	0	0	0	0	



TEST NUMBER: P263513

CATALOG NUMBER: 24CZ-LD5-50-RDP-UNV-L83050-W2A1-U-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1107.3	1107.3	1107.3	1107.3	1107.3
2.5°	1112.5	1105.6	1107.3	1107.3	1103.9
5°	1109.0	1102.2	1105.6	1103.9	1102.2
7.5°	1102.2	1097.0	1100.4	1100.4	1098.7
10°	1093.6	1088.4	1091.8	1093.6	1093.6
12.5°	1081.5	1078.1	1083.2	1083.2	1085.0
15°	1067.8	1064.3	1071.2	1074.6	1074.6
17.5°	1052.3	1050.6	1059.2	1060.9	1062.6
20°	1035.1	1033.4	1043.7	1043.7	1047.1
22.5°	1014.5	1012.7	1026.5	1026.5	1029.9
25°	992.1	990.4	1005.9	1009.3	1011.0
27.5°	968.0	966.3	981.8	987.0	990.4
30°	940.5	940.5	957.7	964.6	969.8
32.5°	909.6	914.7	930.2	940.5	947.4
35°	880.3	887.2	904.4	916.5	925.1
37.5°	847.7	854.6	873.5	888.9	899.3
40°	813.3	821.9	844.2	861.4	876.9
42.5°	778.9	787.5	811.6	837.4	858.0
45°	739.4	751.4	777.2	813.3	837.4
47.5°	699.8	711.8	744.5	789.2	813.3
50°	658.5	672.3	711.8	763.4	789.2
52.5°	615.6	631.0	680.9	735.9	761.7
55°	570.8	589.8	646.5	705.0	732.5
57.5°	524.4	545.1	612.1	674.0	703.2
60°	476.3	502.1	576.0	641.3	672.3
62.5°	426.4	457.4	539.9	607.0	639.6
65°	374.8	410.9	502.1	572.6	605.2
67.5°	321.5	369.7	464.2	538.2	570.8
70°	268.2	325.0	424.7	500.4	533.0
72.5°	218.4	283.7	385.2	455.6	462.5
75°	170.2	242.4	343.9	350.8	338.7
77.5°	127.2	201.2	283.7	252.8	251.0
80°	91.1	161.6	182.3	187.4	189.1
82.5°	60.2	122.1	118.6	122.1	120.4
85°	36.1	60.2	61.9	60.2	56.7
87.5°	17.2	22.4	17.2	15.5	13.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)