

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: P263691

Luminaire Tested: **24CZ-LD5-55-RDP-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263691
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-L82765-W2A1-U-4500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3918.0 lumens
Efficiency: N/A
Efficacy: 96.0 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

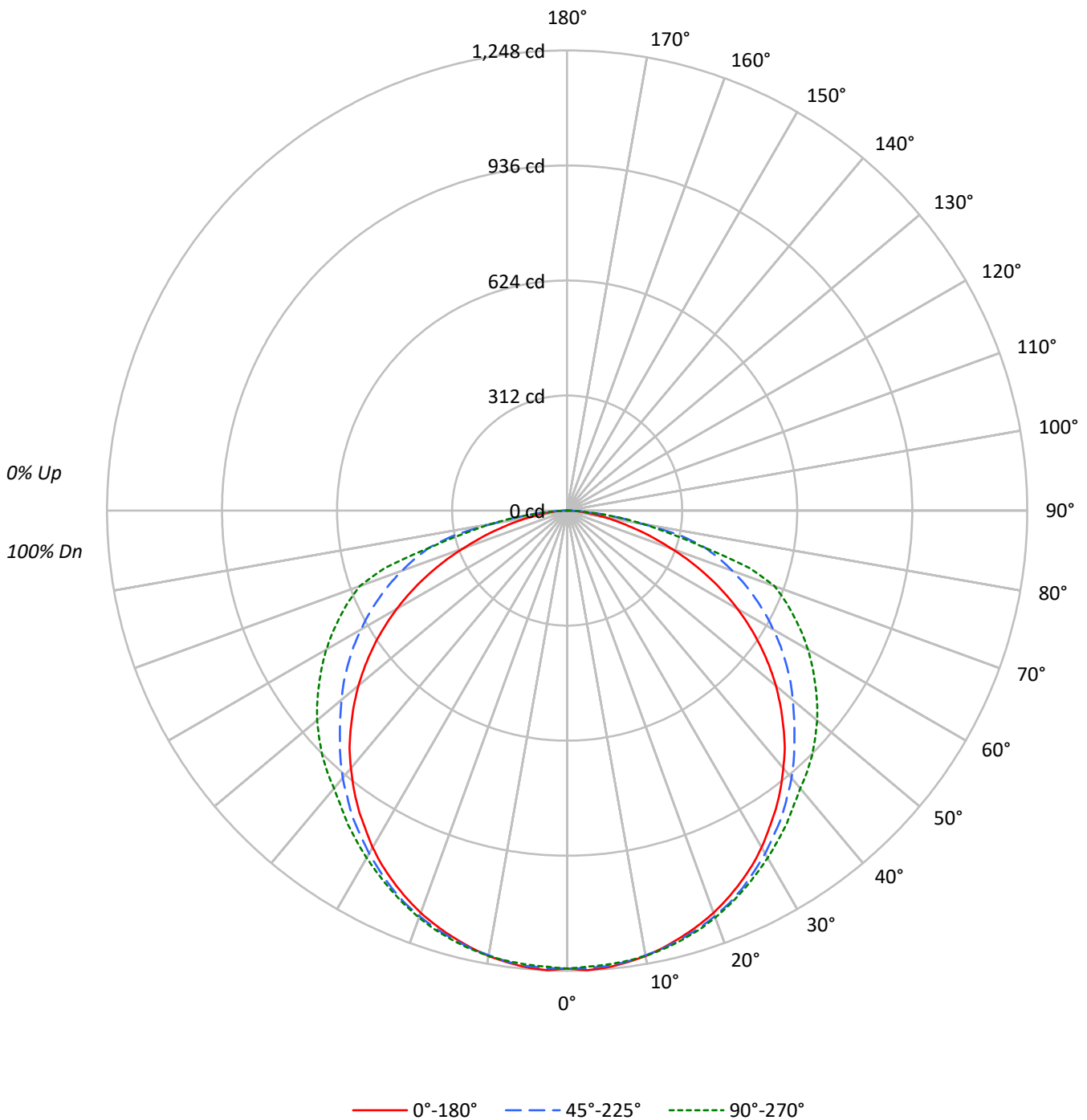
Input Watts (W): 40.827
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P263691

CATALOG NUMBER: 24CZ-LD5-55-RDP-UNV-L82765-W2A1-U-4500K

Luminous Intensity Polar Plot





TEST NUMBER: P263691

CATALOG NUMBER: 24CZ-LD5-55-RDP-UNV-L82765-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°	1671	1671	1671
5°	1680	1675	1670
10°	1676	1673	1676
15°	1668	1674	1679
20°	1662	1676	1682
25°	1652	1675	1684
30°	1639	1669	1690
35°	1622	1666	1704
40°	1602	1663	1728
45°	1578	1659	1787
50°	1546	1671	1853
55°	1502	1701	1927
60°	1438	1739	2029
65°	1338	1793	2161
70°	1184	1874	2352
75°	992	2005	1975
80°	792	1584	1643
85°	625	1071	982



TEST NUMBER: P263691

CATALOG NUMBER: 24CZ-LD5-55-RDP-UNV-L82765-W2A1-U-4500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.8	3.0
10°-20°	339.0	8.7
20°-30°	517.8	13.2
30°-40°	633.1	16.2
40°-50°	677.7	17.3
50°-60°	650.0	16.6
60°-70°	548.8	14.0
70°-80°	350.7	9.0
80°-90°	82.9	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°	974.7	24.9
0°-40°	1607.8	41.0
0°-60°	2935.5	74.9
0°-90°	3918.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3918.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1242	1242	1242	1242	1242	
5°	1244	1236	1240	1238	1236	118
15°	1198	1194	1202	1205	1205	338
25°	1113	1111	1128	1132	1134	513
35°	988	995	1014	1028	1038	617
45°	829	843	872	912	939	640
55°	640	662	725	791	822	571
65°	420	461	563	642	679	415
75°	191	272	386	393	380	206
85°	40	68	69	68	64	49
90°	0	0	0	0	0	



TEST NUMBER: P263691

CATALOG NUMBER: 24CZ-LD5-55-RDP-UNV-L82765-W2A1-U-4500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1242.0	1242.0	1242.0	1242.0	1242.0
2.5°	1247.8	1240.1	1242.0	1242.0	1238.2
5°	1244.0	1236.3	1240.1	1238.2	1236.3
7.5°	1236.3	1230.5	1234.3	1234.3	1232.4
10°	1226.6	1220.8	1224.7	1226.6	1226.6
12.5°	1213.1	1209.3	1215.0	1215.0	1217.0
15°	1197.7	1193.8	1201.5	1205.4	1205.4
17.5°	1180.3	1178.4	1188.0	1190.0	1191.9
20°	1161.0	1159.1	1170.7	1170.7	1174.5
22.5°	1137.9	1136.0	1151.4	1151.4	1155.3
25°	1112.8	1110.9	1128.2	1132.1	1134.0
27.5°	1085.8	1083.9	1101.2	1107.0	1110.9
30°	1055.0	1055.0	1074.2	1082.0	1087.7
32.5°	1020.2	1026.0	1043.4	1055.0	1062.7
35°	987.5	995.2	1014.5	1028.0	1037.6
37.5°	950.8	958.5	979.7	997.1	1008.7
40°	912.2	921.9	947.0	966.2	983.6
42.5°	873.7	883.3	910.3	939.2	962.4
45°	829.3	842.8	871.7	912.2	939.2
47.5°	785.0	798.5	835.1	885.2	912.2
50°	738.7	754.1	798.5	856.3	885.2
52.5°	690.5	707.8	763.7	825.5	854.4
55°	640.3	661.5	725.2	790.7	821.6
57.5°	588.2	611.4	686.6	756.0	788.8
60°	534.2	563.2	646.1	719.4	754.1
62.5°	478.3	513.0	605.6	680.8	717.5
65°	420.4	460.9	563.2	642.2	678.9
67.5°	360.7	414.7	520.7	603.7	640.3
70°	300.9	364.5	476.4	561.2	597.9
72.5°	244.9	318.2	432.0	511.1	518.8
75°	190.9	271.9	385.7	393.4	379.9
77.5°	142.7	225.6	318.2	283.5	281.6
80°	102.2	181.3	204.4	210.2	212.1
82.5°	67.5	136.9	133.1	136.9	135.0
85°	40.5	67.5	69.4	67.5	63.6
87.5°	19.3	25.1	19.3	17.4	15.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)