

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: P263706

Luminaire Tested: **24CZ-LD5-65-RDP-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263706
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-LD5-65-RDP-UNV-L82765-W2A1-U-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4289.0 lumens
Efficiency: N/A
Efficacy: 88.3 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

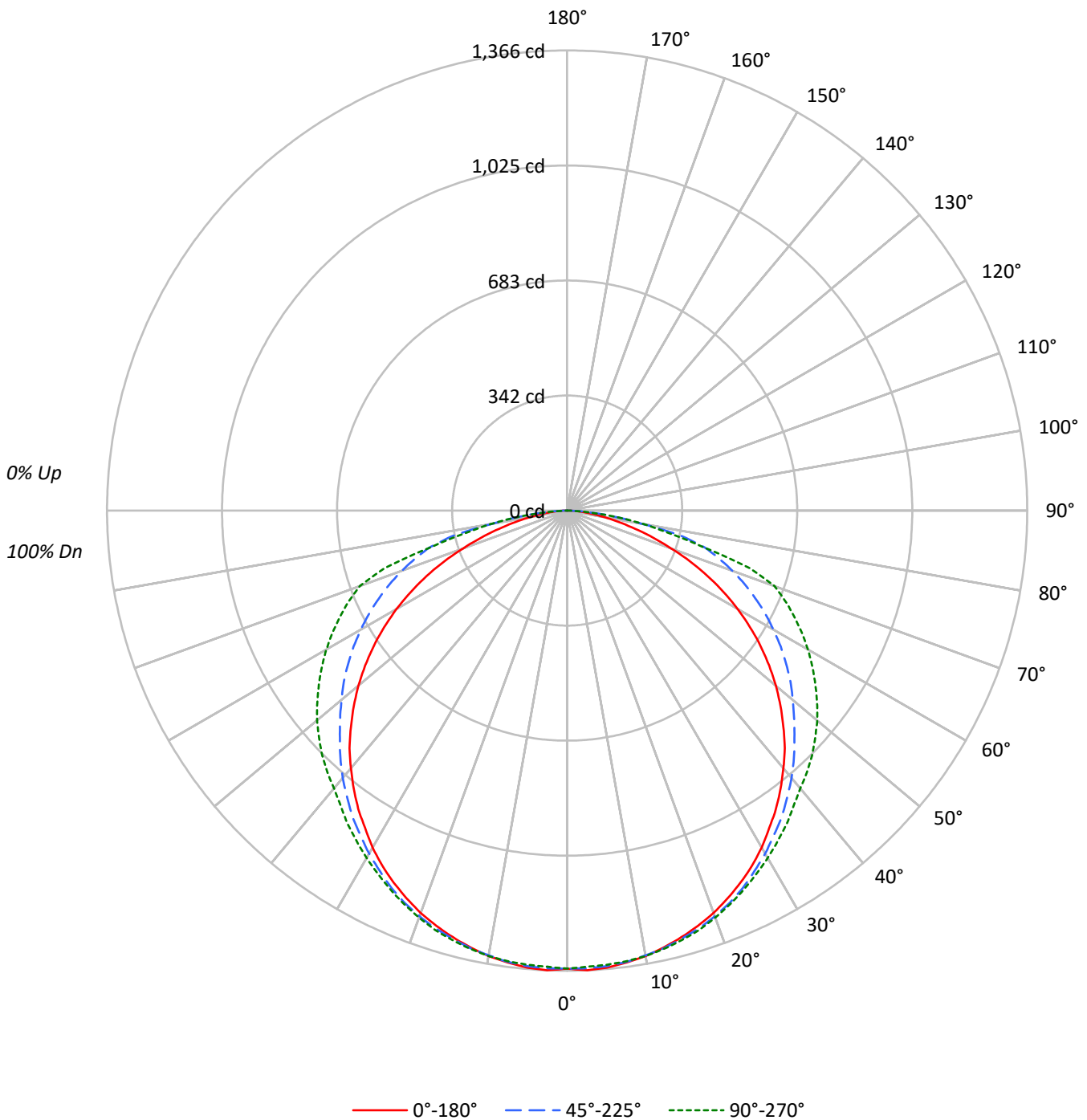
Input Watts (W): 48.546
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P263706

CATALOG NUMBER: 24CZ-LD5-65-RDP-UNV-L82765-W2A1-U-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P263706

CATALOG NUMBER: 24CZ-LD5-65-RDP-UNV-L82765-W2A1-U-3000K

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°	1829	1829	1829
5°	1839	1833	1828
10°	1835	1832	1835
15°	1826	1832	1838
20°	1820	1835	1841
25°	1809	1834	1843
30°	1794	1827	1850
35°	1776	1824	1866
40°	1754	1821	1891
45°	1727	1816	1956
50°	1693	1830	2029
55°	1644	1862	2110
60°	1574	1903	2221
65°	1465	1963	2366
70°	1296	2052	2575
75°	1087	2195	2162
80°	867	1734	1799
85°	684	1173	1076



TEST NUMBER: P263706

CATALOG NUMBER: 24CZ-LD5-65-RDP-UNV-L82765-W2A1-U-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.0	3.0
10°-20°	371.1	8.7
20°-30°	566.9	13.2
30°-40°	693.1	16.2
40°-50°	741.8	17.3
50°-60°	711.6	16.6
60°-70°	600.8	14.0
70°-80°	384.0	9.0
80°-90°	90.8	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°	1067.0	24.9
0°-40°	1760.0	41.0
0°-60°	3213.4	74.9
0°-90°	4289.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4289.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1360	1360	1360	1360	1360	
5°	1362	1353	1358	1355	1353	129
15°	1311	1307	1315	1320	1320	370
25°	1218	1216	1235	1239	1241	561
35°	1081	1089	1110	1125	1136	676
45°	908	923	954	999	1028	700
55°	701	724	794	866	899	625
65°	460	505	616	703	743	454
75°	209	298	422	431	416	225
85°	44	74	76	74	70	53
90°	0	0	0	0	0	



TEST NUMBER: P263706

CATALOG NUMBER: 24CZ-LD5-65-RDP-UNV-L82765-W2A1-U-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1359.6	1359.6	1359.6	1359.6	1359.6
2.5°	1366.0	1357.5	1359.6	1359.6	1355.4
5°	1361.8	1353.3	1357.5	1355.4	1353.3
7.5°	1353.3	1347.0	1351.2	1351.2	1349.1
10°	1342.8	1336.4	1340.6	1342.8	1342.8
12.5°	1328.0	1323.8	1330.1	1330.1	1332.2
15°	1311.1	1306.9	1315.3	1319.5	1319.5
17.5°	1292.1	1290.0	1300.5	1302.6	1304.8
20°	1271.0	1268.9	1281.5	1281.5	1285.8
22.5°	1245.6	1243.5	1260.4	1260.4	1264.6
25°	1218.2	1216.1	1235.1	1239.3	1241.4
27.5°	1188.6	1186.5	1205.5	1211.9	1216.1
30°	1154.9	1154.9	1176.0	1184.4	1190.7
32.5°	1116.9	1123.2	1142.2	1154.9	1163.3
35°	1081.0	1089.4	1110.5	1125.3	1135.9
37.5°	1040.8	1049.3	1072.5	1091.5	1104.2
40°	998.6	1009.2	1036.6	1057.7	1076.7
42.5°	956.4	967.0	996.5	1028.2	1053.5
45°	907.8	922.6	954.3	998.6	1028.2
47.5°	859.3	874.1	914.2	969.1	998.6
50°	808.6	825.5	874.1	937.4	969.1
52.5°	755.8	774.8	836.1	903.6	935.3
55°	700.9	724.2	793.8	865.6	899.4
57.5°	643.9	669.3	751.6	827.6	863.5
60°	584.8	616.5	707.3	787.5	825.5
62.5°	523.6	561.6	662.9	745.3	785.4
65°	460.3	504.6	616.5	703.0	743.2
67.5°	394.8	453.9	570.0	660.8	700.9
70°	329.4	399.0	521.5	614.4	654.5
72.5°	268.1	348.4	472.9	559.5	567.9
75°	209.0	297.7	422.3	430.7	415.9
77.5°	156.2	247.0	348.4	310.4	308.2
80°	111.9	198.5	223.8	230.1	232.2
82.5°	73.9	149.9	145.7	149.9	147.8
85°	44.3	73.9	76.0	73.9	69.7
87.5°	21.1	27.4	21.1	19.0	16.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)