

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: P263847

Luminaire Tested: **24CZ-LD5-65-RDP-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263847
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-L92765-W2A1-U-5700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4283.0 lumens
Efficiency: N/A
Efficacy: 85.0 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

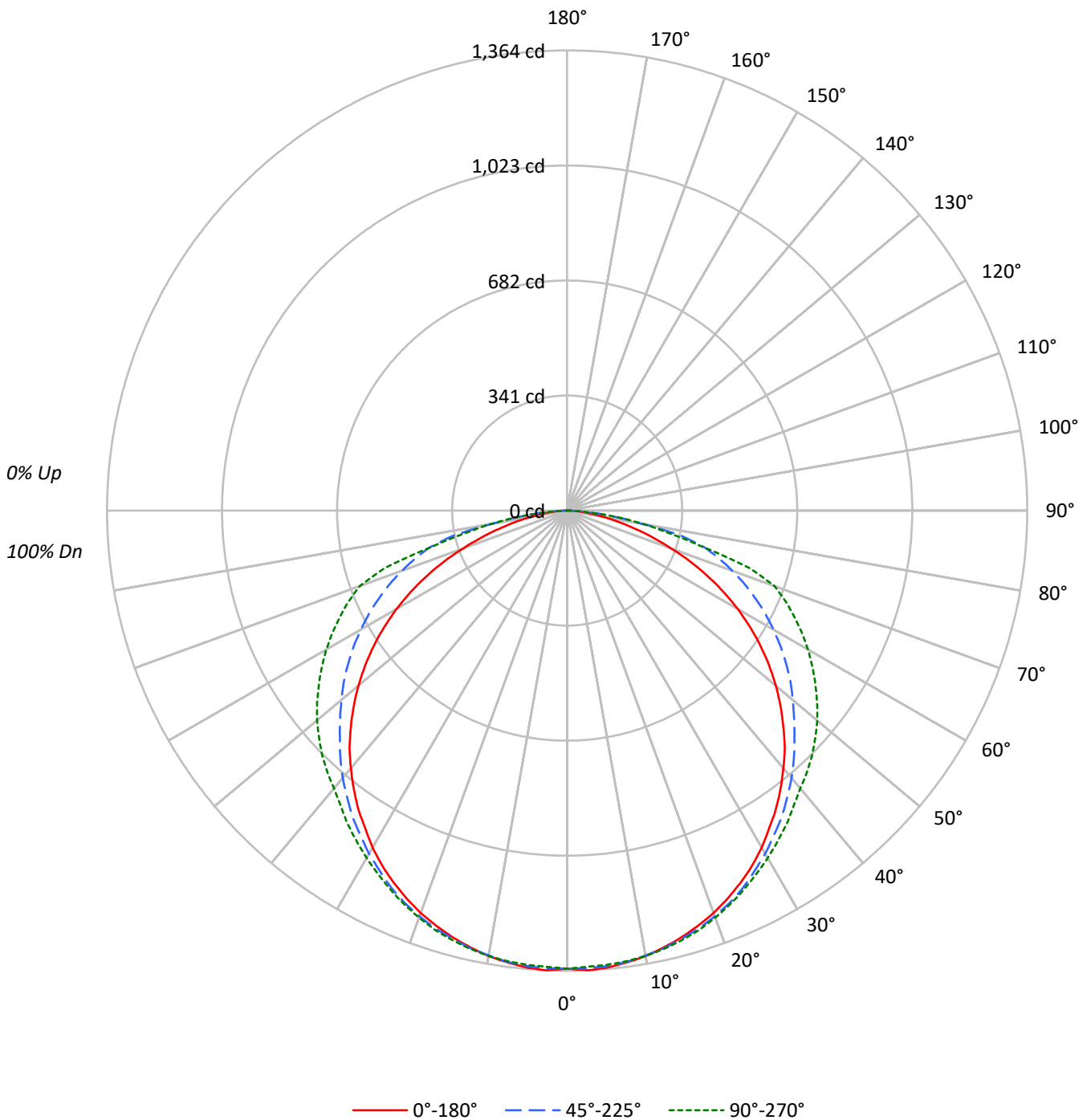
Input Watts (W): 50.406
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P263847

CATALOG NUMBER: 24CZ-LD5-65-RDP-UNV-L92765-W2A1-U-5700K

Luminous Intensity Polar Plot





TEST NUMBER: P263847

CATALOG NUMBER: 24CZ-LD5-65-RDP-UNV-L92765-W2A1-U-5700K

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°	1827	1827	1827
5°	1837	1831	1825
10°	1832	1829	1832
15°	1824	1830	1835
20°	1817	1832	1838
25°	1806	1831	1840
30°	1792	1824	1847
35°	1773	1822	1863
40°	1751	1818	1888
45°	1725	1813	1954
50°	1690	1827	2026
55°	1642	1860	2107
60°	1572	1901	2218
65°	1463	1960	2363
70°	1294	2049	2571
75°	1085	2192	2159
80°	865	1732	1797
85°	684	1172	1074



TEST NUMBER: P263847

CATALOG NUMBER: 24CZ-LD5-65-RDP-UNV-L92765-W2A1-U-5700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.8	3.0
10°-20°	370.6	8.7
20°-30°	566.1	13.2
30°-40°	692.1	16.2
40°-50°	740.8	17.3
50°-60°	710.6	16.6
60°-70°	600.0	14.0
70°-80°	383.4	9.0
80°-90°	90.7	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°	1065.5	24.9
0°-40°	1757.6	41.0
0°-60°	3208.9	74.9
0°-90°	4283.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4283.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1358	1358	1358	1358	1358	
5°	1360	1351	1356	1354	1351	129
15°	1309	1305	1314	1318	1318	370
25°	1216	1214	1233	1238	1240	561
35°	1080	1088	1109	1124	1134	675
45°	907	921	953	997	1027	699
55°	700	723	793	864	898	625
65°	460	504	616	702	742	453
75°	209	297	422	430	415	225
85°	44	74	76	74	70	53
90°	0	0	0	0	0	



TEST NUMBER: P263847

CATALOG NUMBER: 24CZ-LD5-65-RDP-UNV-L92765-W2A1-U-5700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1357.7	1357.7	1357.7	1357.7	1357.7
2.5°	1364.1	1355.6	1357.7	1357.7	1353.5
5°	1359.9	1351.4	1355.6	1353.5	1351.4
7.5°	1351.4	1345.1	1349.3	1349.3	1347.2
10°	1340.9	1334.6	1338.8	1340.9	1340.9
12.5°	1326.1	1321.9	1328.2	1328.2	1330.3
15°	1309.3	1305.0	1313.5	1317.7	1317.7
17.5°	1290.3	1288.2	1298.7	1300.8	1302.9
20°	1269.2	1267.1	1279.7	1279.7	1284.0
22.5°	1243.9	1241.8	1258.7	1258.7	1262.9
25°	1216.5	1214.4	1233.4	1237.6	1239.7
27.5°	1187.0	1184.9	1203.8	1210.2	1214.4
30°	1153.2	1153.2	1174.3	1182.8	1189.1
32.5°	1115.3	1121.6	1140.6	1153.2	1161.7
35°	1079.5	1087.9	1109.0	1123.7	1134.3
37.5°	1039.4	1047.8	1071.0	1090.0	1102.6
40°	997.2	1007.8	1035.2	1056.3	1075.2
42.5°	955.1	965.6	995.1	1026.7	1052.0
45°	906.6	921.3	953.0	997.2	1026.7
47.5°	858.1	872.8	912.9	967.7	997.2
50°	807.5	824.3	872.8	936.1	967.7
52.5°	754.8	773.7	834.9	902.4	934.0
55°	700.0	723.1	792.7	864.4	898.1
57.5°	643.0	668.3	750.6	826.5	862.3
60°	584.0	615.6	706.3	786.4	824.3
62.5°	522.9	560.8	662.0	744.2	784.3
65°	459.6	503.9	615.6	702.1	742.1
67.5°	394.3	453.3	569.2	659.9	700.0
70°	328.9	398.5	520.8	613.5	653.6
72.5°	267.8	347.9	472.3	558.7	567.1
75°	208.7	297.3	421.7	430.1	415.3
77.5°	156.0	246.7	347.9	309.9	307.8
80°	111.7	198.2	223.5	229.8	231.9
82.5°	73.8	149.7	145.5	149.7	147.6
85°	44.3	73.8	75.9	73.8	69.6
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)