

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: P263838

Luminaire Tested: **24CZ-LD5-60-RDP-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263838
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-LD5-60-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: 3952.0 lumens
Efficiency: N/A
Efficacy: 86.7 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

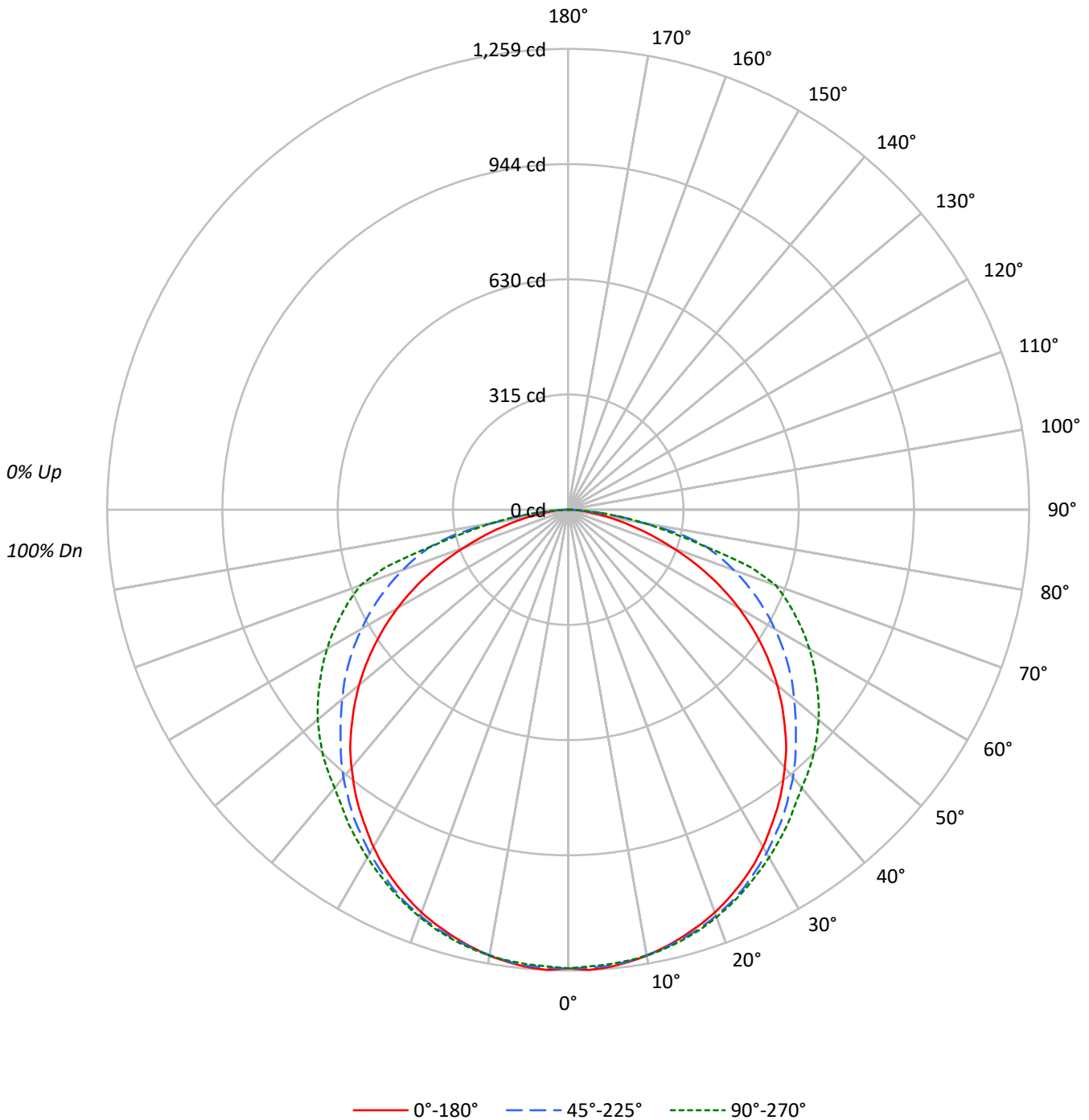
Input Watts (W): 45.57
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P263838

CATALOG NUMBER: 24CZ-LD5-60-RDP-UNV-L92765-W2A1-U-5700K

Luminous Intensity Polar Plot





TEST NUMBER: P263838

CATALOG NUMBER: 24CZ-LD5-60-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°	1686	1686	1686
5°	1695	1690	1684
10°	1690	1688	1690
15°	1683	1688	1694
20°	1677	1691	1696
25°	1666	1689	1698
30°	1653	1684	1705
35°	1636	1681	1719
40°	1616	1678	1743
45°	1592	1673	1803
50°	1560	1686	1869
55°	1515	1716	1944
60°	1450	1754	2047
65°	1350	1808	2180
70°	1194	1890	2373
75°	1001	2023	1992
80°	799	1598	1658
85°	631	1081	991



TEST NUMBER: P263838

CATALOG NUMBER: 24CZ-LD5-60-RDP-UNV-L92765-W2A1-U-5700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.8	3.0
10°-20°	342.0	8.7
20°-30°	522.3	13.2
30°-40°	638.6	16.2
40°-50°	683.5	17.3
50°-60°	655.7	16.6
60°-70°	553.6	14.0
70°-80°	353.8	9.0
80°-90°	83.7	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°	983.1	24.9
0°-40°	1621.7	41.0
0°-60°	2960.9	74.9
0°-90°	3952.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3952.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1253	1253	1253	1253	1253	
5°	1255	1247	1251	1249	1247	119
15°	1208	1204	1212	1216	1216	341
25°	1122	1120	1138	1142	1144	517
35°	996	1004	1023	1037	1047	623
45°	836	850	879	920	947	645
55°	646	667	732	798	829	576
65°	424	465	568	648	685	418
75°	193	274	389	397	383	207
85°	41	68	70	68	64	49
90°	0	0	0	0	0	



TEST NUMBER: P263838

CATALOG NUMBER: 24CZ-LD5-60-RDP-UNV-L92765-W2A1-U-5700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1252.8	1252.8	1252.8	1252.8	1252.8
2.5°	1258.7	1250.9	1252.8	1252.8	1248.9
5°	1254.8	1247.0	1250.9	1248.9	1247.0
7.5°	1247.0	1241.1	1245.0	1245.0	1243.1
10°	1237.3	1231.4	1235.3	1237.3	1237.3
12.5°	1223.6	1219.7	1225.6	1225.6	1227.5
15°	1208.1	1204.2	1212.0	1215.9	1215.9
17.5°	1190.6	1188.6	1198.3	1200.3	1202.2
20°	1171.1	1169.2	1180.8	1180.8	1184.7
22.5°	1147.8	1145.8	1161.4	1161.4	1165.3
25°	1122.5	1120.5	1138.0	1141.9	1143.9
27.5°	1095.2	1093.3	1110.8	1116.6	1120.5
30°	1064.1	1064.1	1083.6	1091.4	1097.2
32.5°	1029.1	1034.9	1052.4	1064.1	1071.9
35°	996.0	1003.8	1023.3	1036.9	1046.6
37.5°	959.1	966.8	988.2	1005.8	1017.4
40°	920.2	929.9	955.2	974.6	992.1
42.5°	881.3	891.0	918.2	947.4	970.7
45°	836.5	850.1	879.3	920.2	947.4
47.5°	791.8	805.4	842.3	892.9	920.2
50°	745.1	760.6	805.4	863.7	892.9
52.5°	696.4	714.0	770.4	832.6	861.8
55°	645.9	667.3	731.5	797.6	828.7
57.5°	593.3	616.7	692.6	762.6	795.7
60°	538.9	568.0	651.7	725.6	760.6
62.5°	482.5	517.5	610.8	686.7	723.7
65°	424.1	464.9	568.0	647.8	684.8
67.5°	363.8	418.3	525.2	608.9	645.9
70°	303.5	367.7	480.5	566.1	603.1
72.5°	247.1	321.0	435.8	515.5	523.3
75°	192.6	274.3	389.1	396.9	383.2
77.5°	144.0	227.6	321.0	286.0	284.0
80°	103.1	182.9	206.2	212.0	214.0
82.5°	68.1	138.1	134.2	138.1	136.2
85°	40.9	68.1	70.0	68.1	64.2
87.5°	19.5	25.3	19.5	17.5	15.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)