

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: P263865

Luminaire Tested: **24CZ-LD5-75-RDP-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263865
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-LD5-75-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: 4939.0 lumens
Efficiency: N/A
Efficacy: 82.1 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

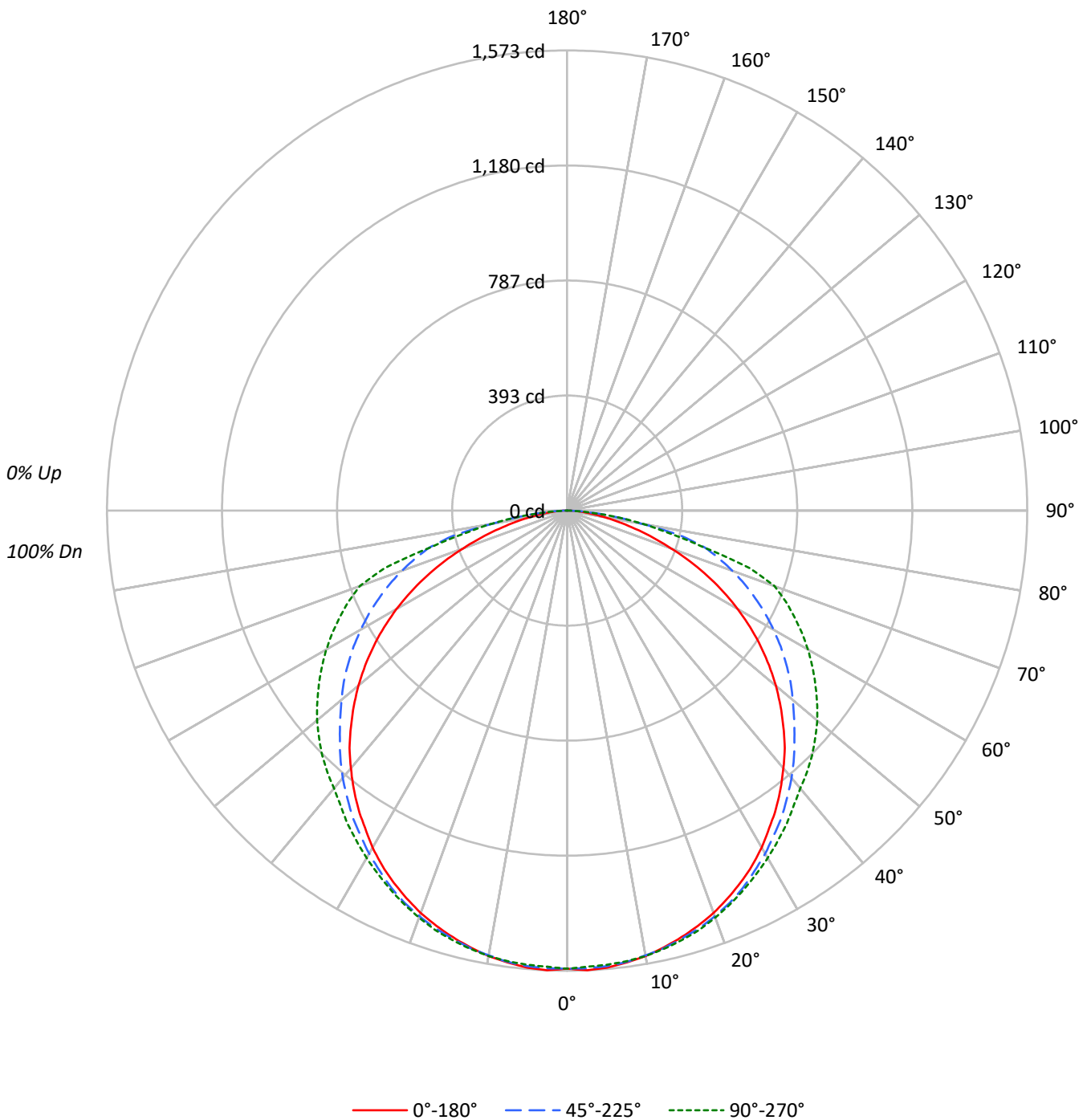
Input Watts (W): 60.171
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P263865

CATALOG NUMBER: 24CZ-LD5-75-RDP-UNV-L92765-W2A1-U-5700K

Luminous Intensity Polar Plot





TEST NUMBER: P263865

CATALOG NUMBER: 24CZ-LD5-75-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	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°	2107	2107	2107
5°	2118	2111	2105
10°	2113	2109	2113
15°	2103	2110	2117
20°	2096	2113	2120
25°	2083	2112	2122
30°	2066	2104	2130
35°	2045	2100	2148
40°	2020	2097	2178
45°	1989	2091	2253
50°	1949	2107	2336
55°	1894	2144	2430
60°	1812	2192	2558
65°	1687	2260	2725
70°	1492	2362	2965
75°	1251	2528	2490
80°	999	1997	2072
85°	789	1351	1238



TEST NUMBER: P263865

CATALOG NUMBER: 24CZ-LD5-75-RDP-UNV-L92765-W2A1-U-5700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.5	3.0
10°-20°	427.4	8.7
20°-30°	652.8	13.2
30°-40°	798.1	16.2
40°-50°	854.3	17.3
50°-60°	819.4	16.6
60°-70°	691.9	14.0
70°-80°	442.2	9.0
80°-90°	104.6	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°	1228.7	24.9
0°-40°	2026.8	41.0
0°-60°	3700.4	74.9
0°-90°	4939.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4939.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1566	1566	1566	1566	1566	
5°	1568	1558	1563	1561	1558	149
15°	1510	1505	1515	1520	1520	426
25°	1403	1400	1422	1427	1430	647
35°	1245	1254	1279	1296	1308	778
45°	1045	1062	1099	1150	1184	806
55°	807	834	914	997	1036	720
65°	530	581	710	810	856	523
75°	241	343	486	496	479	259
85°	51	85	88	85	80	61
90°	0	0	0	0	0	



TEST NUMBER: P263865

CATALOG NUMBER: 24CZ-LD5-75-RDP-UNV-L92765-W2A1-U-5700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1565.7	1565.7	1565.7	1565.7	1565.7
2.5°	1573.0	1563.3	1565.7	1565.7	1560.8
5°	1568.1	1558.4	1563.3	1560.8	1558.4
7.5°	1558.4	1551.1	1556.0	1556.0	1553.5
10°	1546.3	1539.0	1543.8	1546.3	1546.3
12.5°	1529.2	1524.4	1531.7	1531.7	1534.1
15°	1509.8	1504.9	1514.6	1519.5	1519.5
17.5°	1487.9	1485.5	1497.6	1500.1	1502.5
20°	1463.6	1461.2	1475.7	1475.7	1480.6
22.5°	1434.4	1432.0	1451.4	1451.4	1456.3
25°	1402.8	1400.4	1422.3	1427.1	1429.6
27.5°	1368.8	1366.3	1388.2	1395.5	1400.4
30°	1329.9	1329.9	1354.2	1363.9	1371.2
32.5°	1286.1	1293.4	1315.3	1329.9	1339.6
35°	1244.8	1254.5	1278.8	1295.8	1308.0
37.5°	1198.6	1208.3	1235.1	1256.9	1271.5
40°	1150.0	1162.1	1193.7	1218.0	1239.9
42.5°	1101.3	1113.5	1147.5	1184.0	1213.2
45°	1045.4	1062.4	1098.9	1150.0	1184.0
47.5°	989.5	1006.5	1052.7	1115.9	1150.0
50°	931.2	950.6	1006.5	1079.5	1115.9
52.5°	870.4	892.3	962.8	1040.6	1077.0
55°	807.2	833.9	914.1	996.8	1035.7
57.5°	741.5	770.7	865.5	953.0	994.4
60°	673.4	709.9	814.5	906.8	950.6
62.5°	602.9	646.7	763.4	858.2	904.4
65°	530.0	581.1	709.9	809.6	855.8
67.5°	454.6	522.7	656.4	761.0	807.2
70°	379.3	459.5	600.5	707.5	753.7
72.5°	308.8	401.2	544.6	644.3	654.0
75°	240.7	342.8	486.2	496.0	478.9
77.5°	179.9	284.5	401.2	357.4	355.0
80°	128.9	228.5	257.7	265.0	267.4
82.5°	85.1	172.6	167.8	172.6	170.2
85°	51.1	85.1	87.5	85.1	80.2
87.5°	24.3	31.6	24.3	21.9	19.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)