

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: P263858

Luminaire Tested: **24CZ-LD5-75-RDP-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263858
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-2700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4105.0 lumens
Efficiency: N/A
Efficacy: 70.4 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

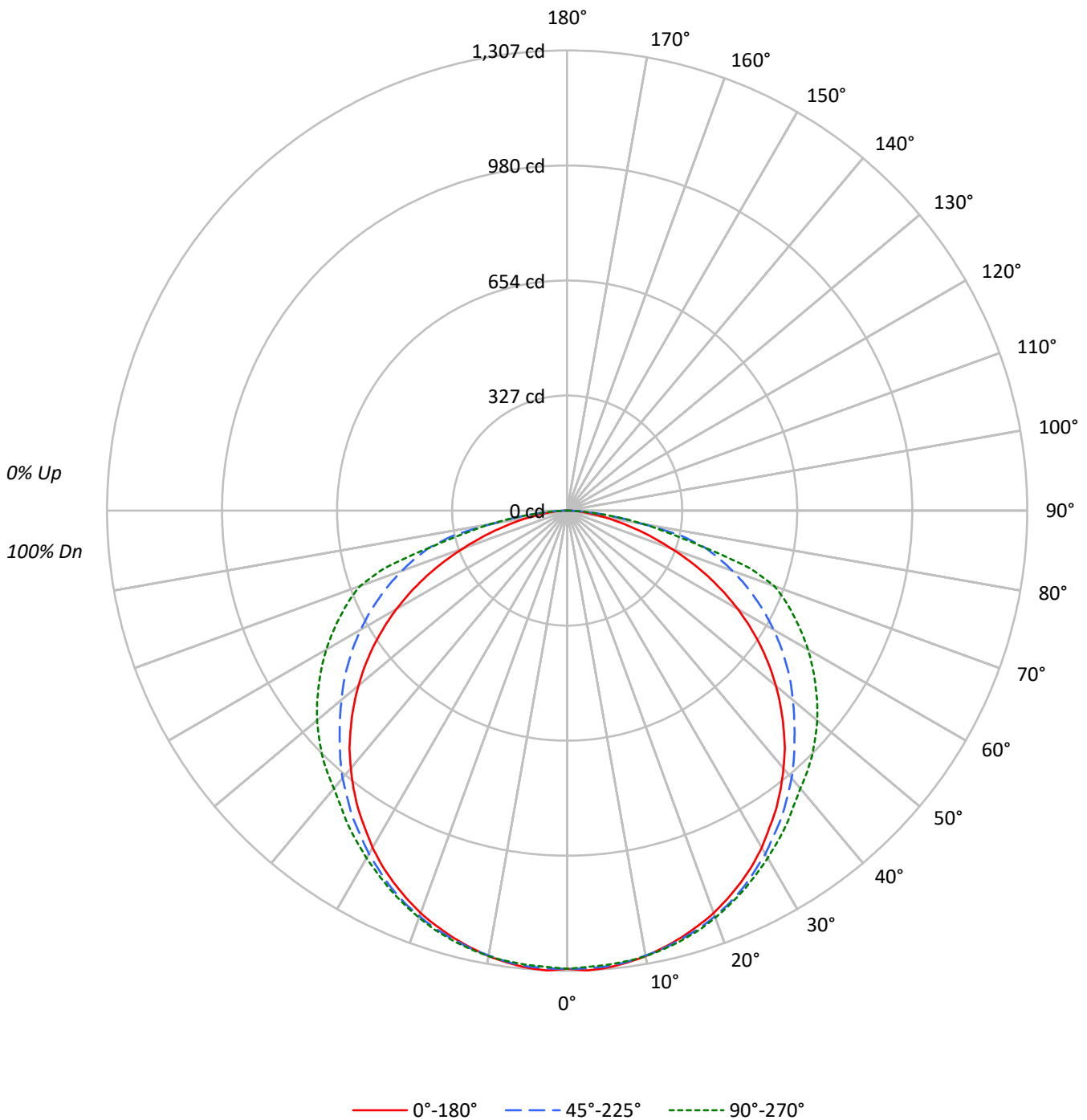
Input Watts (W): 58.311
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P263858

CATALOG NUMBER: 24CZ-LD5-75-RDP-UNV-L92765-W2A1-U-2700K

Luminous Intensity Polar Plot





TEST NUMBER: P263858

CATALOG NUMBER: 24CZ-LD5-75-RDP-UNV-L92765-W2A1-U-2700K

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°	1751	1751	1751
5°	1760	1755	1749
10°	1756	1753	1756
15°	1748	1754	1759
20°	1742	1756	1762
25°	1731	1755	1764
30°	1717	1749	1771
35°	1699	1746	1786
40°	1679	1743	1810
45°	1653	1738	1873
50°	1620	1751	1941
55°	1574	1782	2019
60°	1506	1822	2126
65°	1402	1878	2265
70°	1240	1963	2464
75°	1040	2101	2070
80°	830	1660	1722
85°	655	1122	1030



TEST NUMBER: P263858

CATALOG NUMBER: 24CZ-LD5-75-RDP-UNV-L92765-W2A1-U-2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.4	3.0
10°-20°	355.2	8.7
20°-30°	542.6	13.2
30°-40°	663.3	16.2
40°-50°	710.0	17.3
50°-60°	681.0	16.6
60°-70°	575.0	14.0
70°-80°	367.5	9.0
80°-90°	86.9	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°	1021.2	24.9
0°-40°	1684.5	41.0
0°-60°	3075.6	74.9
0°-90°	4105.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4105.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1301	1301	1301	1301	1301	
5°	1303	1295	1299	1297	1295	124
15°	1255	1251	1259	1263	1263	354
25°	1166	1164	1182	1186	1188	537
35°	1035	1043	1063	1077	1087	647
45°	869	883	913	956	984	670
55°	671	693	760	828	861	599
65°	440	483	590	673	711	434
75°	200	285	404	412	398	215
85°	42	71	73	71	67	51
90°	0	0	0	0	0	



TEST NUMBER: P263858

CATALOG NUMBER: 24CZ-LD5-75-RDP-UNV-L92765-W2A1-U-2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1301.3	1301.3	1301.3	1301.3	1301.3
2.5°	1307.4	1299.3	1301.3	1301.3	1297.3
5°	1303.3	1295.3	1299.3	1297.3	1295.3
7.5°	1295.3	1289.2	1293.2	1293.2	1291.2
10°	1285.2	1279.1	1283.1	1285.2	1285.2
12.5°	1271.0	1267.0	1273.0	1273.0	1275.1
15°	1254.8	1250.8	1258.9	1262.9	1262.9
17.5°	1236.7	1234.6	1244.7	1246.8	1248.8
20°	1216.5	1214.4	1226.6	1226.6	1230.6
22.5°	1192.2	1190.2	1206.3	1206.3	1210.4
25°	1165.9	1163.9	1182.1	1186.1	1188.2
27.5°	1137.6	1135.6	1153.8	1159.9	1163.9
30°	1105.3	1105.3	1125.5	1133.6	1139.7
32.5°	1068.9	1075.0	1093.2	1105.3	1113.4
35°	1034.6	1042.7	1062.9	1077.0	1087.1
37.5°	996.2	1004.3	1026.5	1044.7	1056.8
40°	955.8	965.9	992.2	1012.4	1030.5
42.5°	915.4	925.5	953.8	984.1	1008.3
45°	868.9	883.0	913.3	955.8	984.1
47.5°	822.4	836.6	875.0	927.5	955.8
50°	773.9	790.1	836.6	897.2	927.5
52.5°	723.4	741.6	800.2	864.9	895.2
55°	670.9	693.1	759.8	828.5	860.8
57.5°	616.3	640.6	719.4	792.1	826.5
60°	559.7	590.0	676.9	753.7	790.1
62.5°	501.1	537.5	634.5	713.3	751.7
65°	440.5	482.9	590.0	672.9	711.3
67.5°	377.9	434.4	545.6	632.5	670.9
70°	315.2	381.9	499.1	588.0	626.4
72.5°	256.6	333.4	452.6	535.5	543.6
75°	200.0	284.9	404.1	412.2	398.1
77.5°	149.5	236.4	333.4	297.0	295.0
80°	107.1	189.9	214.2	220.3	222.3
82.5°	70.7	143.5	139.4	143.5	141.4
85°	42.4	70.7	72.7	70.7	66.7
87.5°	20.2	26.3	20.2	18.2	16.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)