

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: P260747

Luminaire Tested: **24CZ-LD5-55-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260747
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25697)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-55-UNV-L82765-W2A1-U-2700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5093.0 lumens
Efficiency: N/A
Efficacy: 127.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.25 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

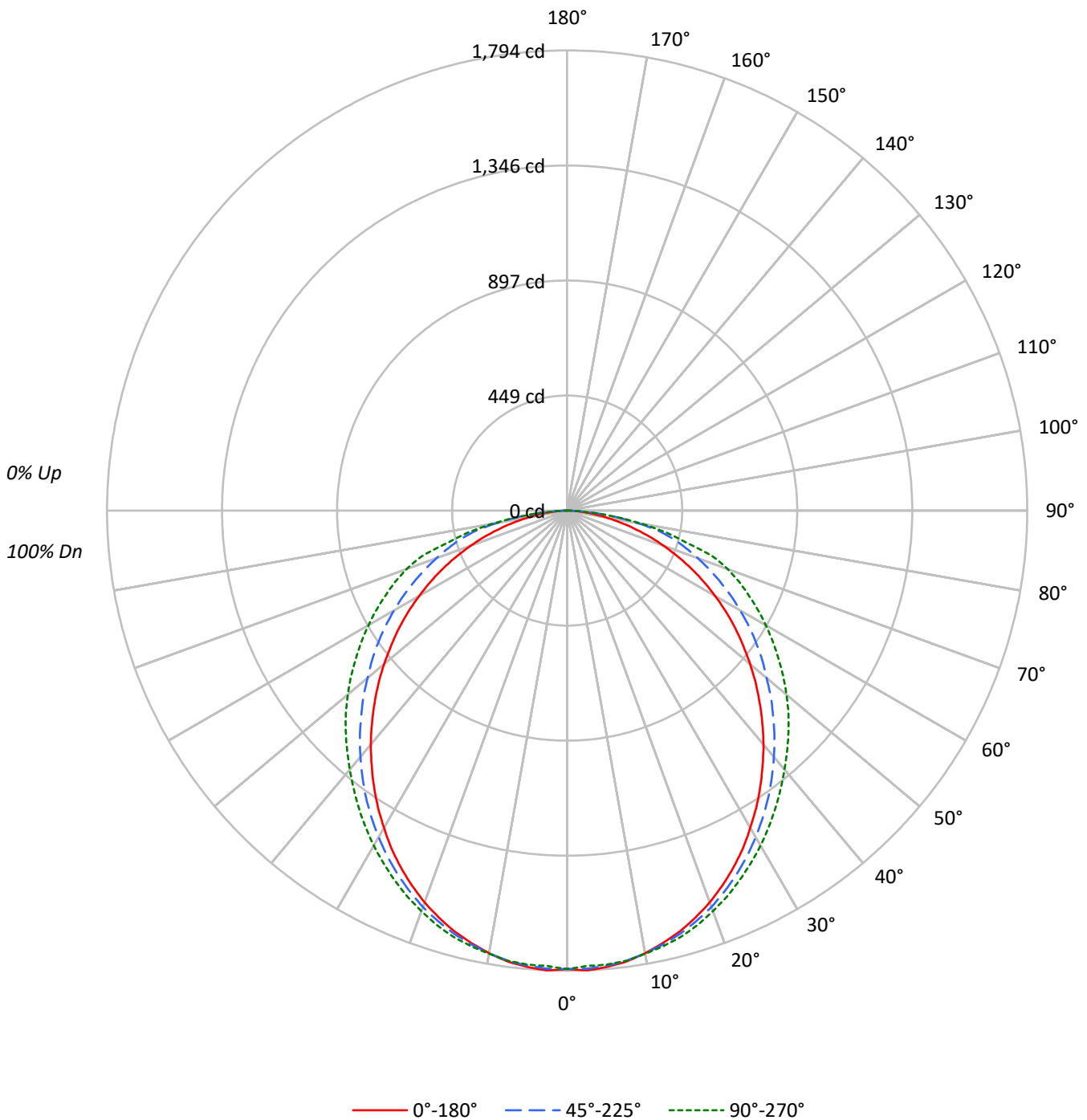
Input Watts (W): 40.083
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P260747

CATALOG NUMBER: 24CZ-LD5-55-UNV-L82765-W2A1-U-2700K

Luminous Intensity Polar Plot





TEST NUMBER: P260747

CATALOG NUMBER: 24CZ-LD5-55-UNV-L82765-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	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	32
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	31	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2405	2405	2405
5°	2412	2405	2400
10°	2394	2394	2397
15°	2366	2378	2395
20°	2327	2355	2379
25°	2278	2322	2361
30°	2219	2284	2344
35°	2157	2246	2326
40°	2092	2202	2315
45°	2021	2160	2323
50°	1949	2124	2336
55°	1878	2111	2360
60°	1792	2098	2407
65°	1699	2099	2487
70°	1571	2133	2620
75°	1405	2230	2493
80°	1175	2135	2283
85°	888	1643	1561



TEST NUMBER: P260747

CATALOG NUMBER: 24CZ-LD5-55-UNV-L82765-W2A1-U-2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.9	3.3
10°-20°	480.7	9.4
20°-30°	718.6	14.1
30°-40°	852.5	16.7
40°-50°	877.5	17.2
50°-60°	805.0	15.8
60°-70°	650.9	12.8
70°-80°	422.4	8.3
80°-90°	116.5	2.3
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°	1368.3	26.9
0°-40°	2220.8	43.6
0°-60°	3903.2	76.6
0°-90°	5093.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5093.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1787	1787	1787	1787	1787	
5°	1786	1773	1780	1779	1777	169
15°	1698	1692	1707	1714	1719	478
25°	1534	1536	1564	1578	1590	706
35°	1313	1324	1367	1397	1416	821
45°	1062	1079	1135	1189	1221	820
55°	800	825	900	973	1006	715
65°	534	565	659	746	781	527
75°	270	321	429	480	480	287
85°	58	98	106	103	101	70
90°	0	0	0	0	0	



TEST NUMBER: P260747

CATALOG NUMBER: 24CZ-LD5-55-UNV-L82765-W2A1-U-2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1787.4	1787.4	1787.4	1787.4	1787.4
2.5°	1794.4	1780.4	1787.4	1785.6	1776.9
5°	1785.6	1773.4	1780.4	1778.7	1776.9
7.5°	1773.4	1761.2	1769.9	1768.2	1769.9
10°	1752.5	1742.0	1752.5	1754.2	1754.2
12.5°	1726.3	1717.6	1731.6	1735.1	1738.6
15°	1698.4	1691.5	1707.2	1714.1	1719.4
17.5°	1663.6	1658.3	1677.5	1686.2	1693.2
20°	1625.2	1623.5	1644.4	1653.1	1661.8
22.5°	1581.6	1581.6	1606.0	1616.5	1628.7
25°	1534.5	1536.3	1564.2	1578.1	1590.3
27.5°	1484.0	1485.7	1518.8	1536.3	1550.2
30°	1428.2	1435.1	1470.0	1492.7	1508.4
32.5°	1372.4	1381.1	1419.4	1445.6	1463.0
35°	1313.1	1323.5	1367.1	1396.8	1416.0
37.5°	1252.0	1264.2	1311.3	1344.5	1367.1
40°	1191.0	1205.0	1253.8	1292.1	1318.3
42.5°	1126.5	1142.2	1196.2	1241.6	1269.5
45°	1062.0	1079.4	1135.2	1189.3	1220.6
47.5°	997.4	1018.4	1077.7	1136.9	1170.1
50°	931.2	952.1	1014.9	1082.9	1116.0
52.5°	864.9	889.3	959.1	1028.8	1062.0
55°	800.4	824.8	899.8	973.0	1006.2
57.5°	734.1	758.5	840.5	917.2	950.4
60°	666.1	694.0	779.5	857.9	894.6
62.5°	599.9	629.5	720.2	803.9	838.8
65°	533.6	565.0	659.2	746.3	781.2
67.5°	465.6	502.2	599.9	688.8	725.4
70°	399.3	439.4	542.3	631.2	666.1
72.5°	334.8	378.4	484.8	575.4	596.4
75°	270.3	320.9	429.0	479.5	479.5
77.5°	209.3	265.1	366.2	385.4	395.8
80°	151.7	212.7	275.5	298.2	294.7
82.5°	101.1	162.2	197.0	197.0	191.8
85°	57.5	97.7	106.4	102.9	101.1
87.5°	24.4	36.6	33.1	26.2	22.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)