

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: P#

Luminaire Tested: **24CZ-LD5-55-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25689)
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-L850-CD1-U
Description: CRUZE 2x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

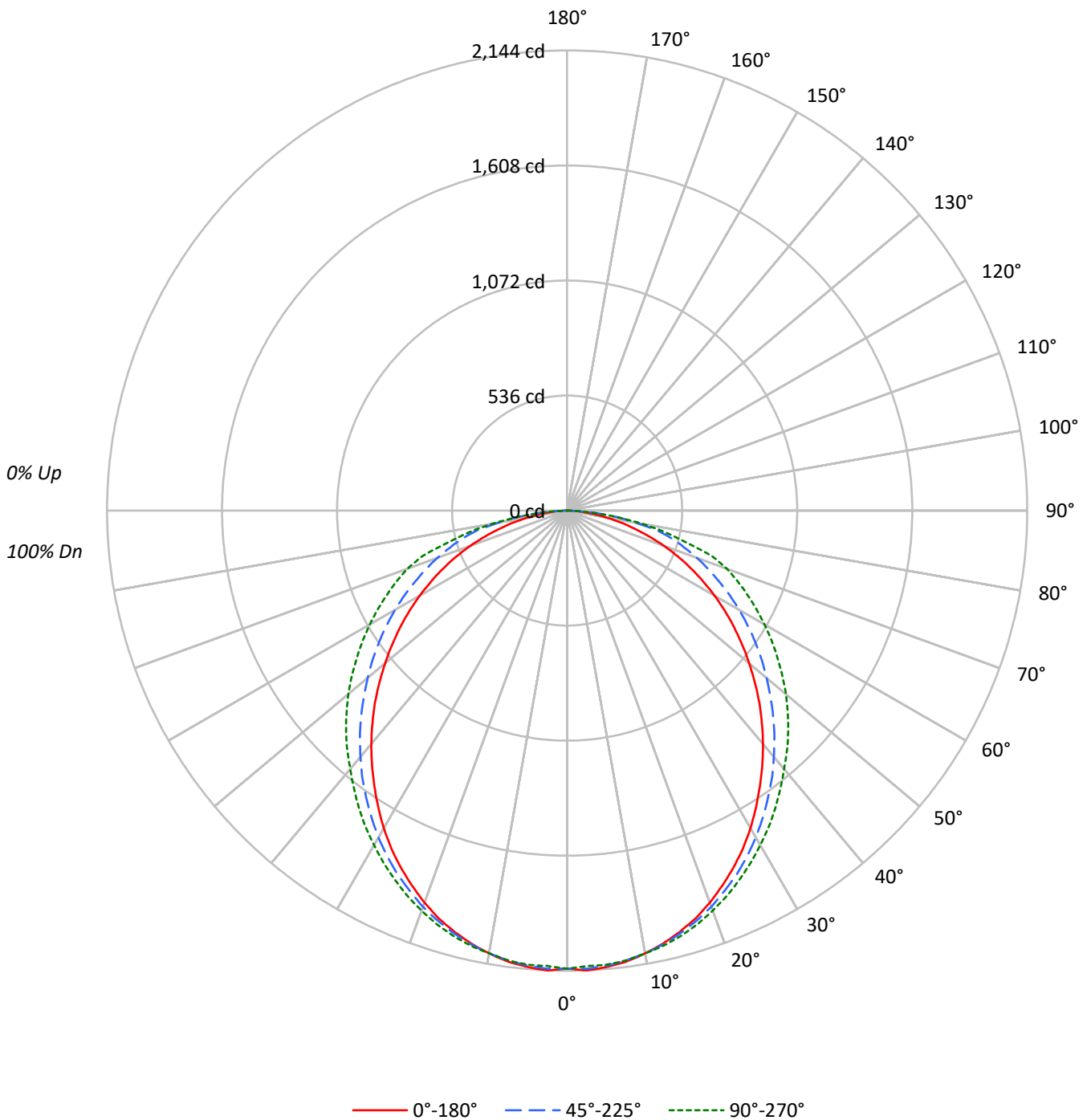
Lumens per Lamp: N/A
Luminaire Lumens: 6072.8 lumens
Efficiency: N/A
Efficacy: 132.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 45.8
Input Voltage (V): NR
Input Current (A_{in}): 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: P#
CATALOG NUMBER: 24CZ-LD5-55-UNV-L850-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 24CZ-LD5-55-UNV-L850-CD1-U

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	96	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	79	70	63	87	77	69	63	74	67	62	71	65	61	69	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	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	55	42	34	28	41	33	28	40	33	28	39	32	28	26
10	52	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2871	2871	2871
5°	2876	2861	2856
10°	2849	2835	2837
15°	2810	2800	2820
20°	2758	2760	2789
25°	2692	2709	2754
30°	2617	2650	2717
35°	2528	2585	2685
40°	2442	2519	2650
45°	2351	2453	2639
50°	2251	2388	2628
55°	2152	2333	2619
60°	2046	2281	2630
65°	1923	2232	2661
70°	1764	2206	2737
75°	1542	2196	2516
80°	1262	1932	2133
85°	868	1250	1218



TEST NUMBER: P#

CATALOG NUMBER: 24CZ-LD5-55-UNV-L850-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.8	3.3
10°-20°	574.4	9.5
20°-30°	858.6	14.1
30°-40°	1018.1	16.8
40°-50°	1047.0	17.2
50°-60°	957.8	15.8
60°-70°	772.5	12.7
70°-80°	501.5	8.3
80°-90°	141.1	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°	1634.8	26.9
0°-40°	2653.0	43.7
0°-60°	4657.7	76.7
0°-90°	6072.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6072.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2134	2134	2134	2134	2134	
5°	2134	2120	2128	2124	2124	202
15°	2031	2020	2039	2047	2051	572
25°	1834	1834	1870	1884	1898	845
35°	1566	1580	1632	1665	1692	980
45°	1266	1289	1357	1419	1456	976
55°	950	981	1070	1155	1196	850
65°	636	674	781	882	926	629
75°	324	384	506	568	574	346
85°	72	120	130	128	124	87
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 24CZ-LD5-55-UNV-L850-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2134.0	2134.0	2134.0	2134.0	2134.0
2.5°	2144.4	2127.8	2136.1	2132.0	2123.7
5°	2134.0	2119.6	2127.8	2123.7	2123.7
7.5°	2119.6	2105.1	2113.4	2113.4	2113.4
10°	2094.8	2082.4	2094.8	2094.8	2094.8
12.5°	2065.9	2055.5	2070.0	2072.1	2076.2
15°	2030.7	2020.4	2039.0	2047.3	2051.4
17.5°	1991.5	1983.2	2003.9	2014.2	2020.4
20°	1944.0	1937.8	1964.6	1975.0	1983.2
22.5°	1890.3	1890.3	1917.1	1929.5	1944.0
25°	1834.5	1834.5	1869.6	1884.1	1898.5
27.5°	1774.6	1776.6	1815.9	1836.6	1851.0
30°	1708.5	1716.7	1758.1	1782.8	1799.4
32.5°	1638.2	1648.6	1696.1	1727.1	1747.7
35°	1565.9	1580.4	1632.0	1665.1	1691.9
37.5°	1493.6	1512.2	1568.0	1605.2	1632.0
40°	1419.3	1439.9	1497.8	1541.1	1572.1
42.5°	1342.8	1365.5	1429.6	1479.2	1516.3
45°	1266.4	1289.1	1357.3	1419.3	1456.4
47.5°	1185.8	1212.7	1285.0	1357.3	1394.5
50°	1107.3	1136.2	1212.7	1291.2	1330.4
52.5°	1028.8	1061.9	1142.4	1225.1	1264.3
55°	950.3	981.3	1070.1	1154.8	1196.1
57.5°	871.8	904.9	997.8	1086.6	1130.0
60°	793.3	828.4	925.5	1018.5	1061.9
62.5°	712.7	749.9	853.2	950.3	993.7
65°	636.3	673.5	780.9	882.1	925.5
67.5°	557.8	599.1	710.7	814.0	859.4
70°	479.3	524.7	642.5	745.8	791.2
72.5°	400.8	452.4	572.2	675.5	708.6
75°	324.3	384.3	506.1	568.1	574.3
77.5°	254.1	316.1	431.8	456.6	469.0
80°	185.9	254.1	324.3	355.3	353.3
82.5°	124.0	194.2	233.4	237.6	233.4
85°	72.3	119.8	130.1	128.1	124.0
87.5°	31.0	47.5	41.3	35.1	28.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)