

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-LD5-45-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-LD5-45-UNV-L850-CD1-U
Description: CRUZE 2x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

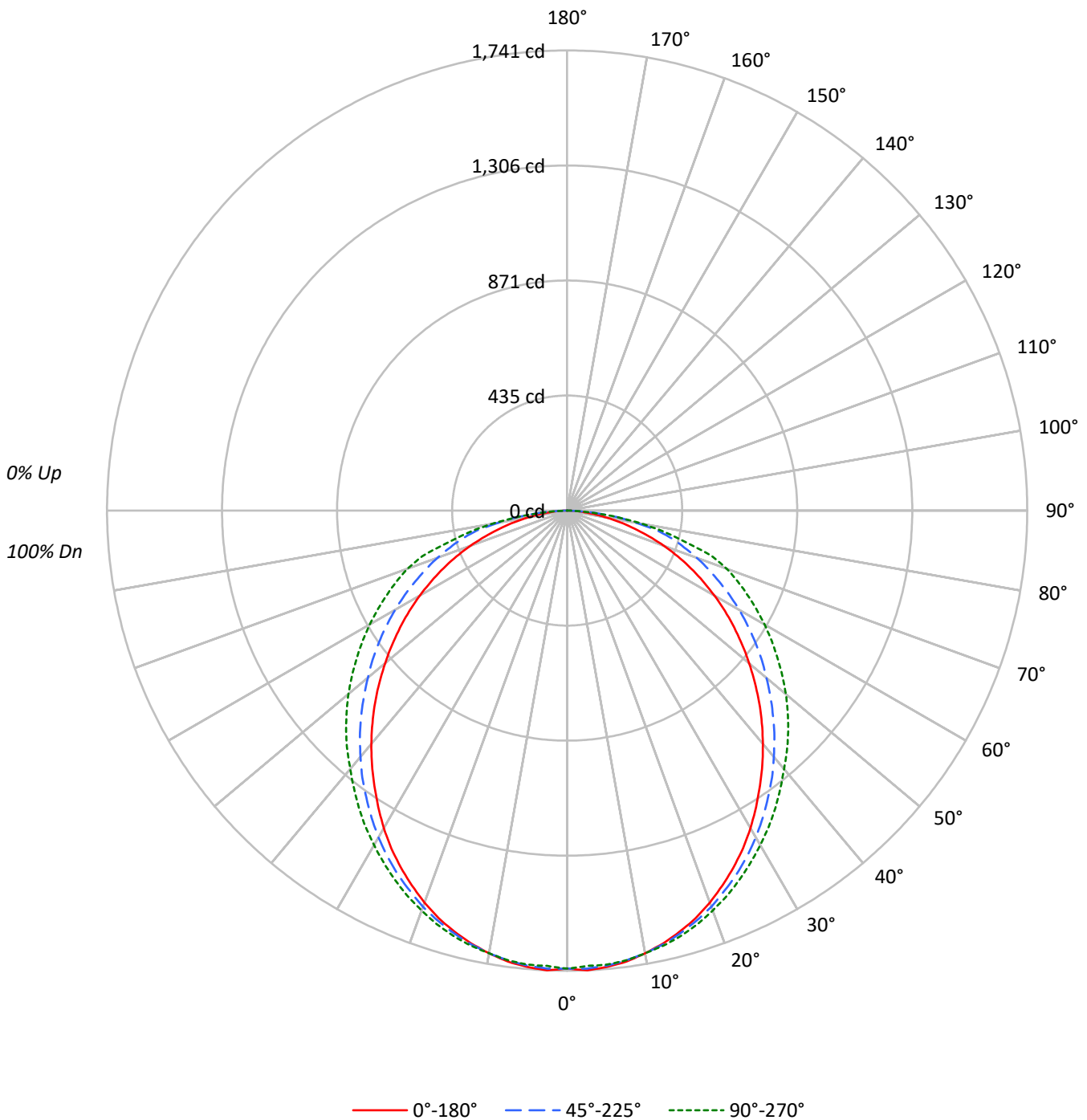
Lumens per Lamp: N/A
Luminaire Lumens: 4930.8 lumens
Efficiency: N/A
Efficacy: 138.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 35.69
Input Voltage (V): NR
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: P#
CATALOG NUMBER: 24CZ-LD5-45-UNV-L850-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 24CZ-LD5-45-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°	2331	2331	2331
5°	2335	2323	2319
10°	2314	2302	2304
15°	2282	2274	2290
20°	2240	2241	2264
25°	2186	2199	2236
30°	2125	2152	2206
35°	2053	2099	2180
40°	1983	2045	2152
45°	1909	1991	2143
50°	1828	1938	2134
55°	1748	1895	2126
60°	1661	1852	2135
65°	1561	1813	2161
70°	1433	1791	2222
75°	1252	1784	2043
80°	1025	1569	1731
85°	705	1016	988



TEST NUMBER: P#

CATALOG NUMBER: 24CZ-LD5-45-UNV-L850-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.9	3.3
10°-20°	466.4	9.5
20°-30°	697.2	14.1
30°-40°	826.7	16.8
40°-50°	850.1	17.2
50°-60°	777.7	15.8
60°-70°	627.2	12.7
70°-80°	407.2	8.3
80°-90°	114.6	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°	1327.4	26.9
0°-40°	2154.1	43.7
0°-60°	3781.9	76.7
0°-90°	4930.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4930.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1733	1733	1733	1733	1733	
5°	1733	1721	1728	1724	1724	164
15°	1649	1640	1656	1662	1666	465
25°	1490	1490	1518	1530	1542	686
35°	1272	1283	1325	1352	1374	796
45°	1028	1047	1102	1152	1183	792
55°	772	797	869	938	971	690
65°	517	547	634	716	752	511
75°	263	312	411	461	466	281
85°	59	97	106	104	101	71
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 24CZ-LD5-45-UNV-L850-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1732.7	1732.7	1732.7	1732.7	1732.7
2.5°	1741.1	1727.7	1734.4	1731.1	1724.4
5°	1732.7	1721.0	1727.7	1724.4	1724.4
7.5°	1721.0	1709.3	1716.0	1716.0	1716.0
10°	1700.9	1690.8	1700.9	1700.9	1700.9
12.5°	1677.4	1669.0	1680.7	1682.4	1685.8
15°	1648.9	1640.5	1655.6	1662.3	1665.7
17.5°	1617.0	1610.3	1627.1	1635.5	1640.5
20°	1578.4	1573.4	1595.2	1603.6	1610.3
22.5°	1534.8	1534.8	1556.6	1566.7	1578.4
25°	1489.5	1489.5	1518.0	1529.8	1541.5
27.5°	1440.9	1442.6	1474.4	1491.2	1502.9
30°	1387.2	1393.9	1427.5	1447.6	1461.0
32.5°	1330.2	1338.6	1377.1	1402.3	1419.1
35°	1271.5	1283.2	1325.1	1352.0	1373.8
37.5°	1212.8	1227.9	1273.1	1303.3	1325.1
40°	1152.4	1169.1	1216.1	1251.3	1276.5
42.5°	1090.3	1108.8	1160.8	1201.0	1231.2
45°	1028.2	1046.7	1102.0	1152.4	1182.6
47.5°	962.8	984.6	1043.3	1102.0	1132.2
50°	899.1	922.6	984.6	1048.4	1080.2
52.5°	835.3	862.2	927.6	994.7	1026.6
55°	771.6	796.8	868.9	937.7	971.2
57.5°	707.9	734.7	810.2	882.3	917.5
60°	644.1	672.6	751.5	827.0	862.2
62.5°	578.7	608.9	692.8	771.6	806.8
65°	516.6	546.8	634.1	716.2	751.5
67.5°	452.9	486.4	577.0	660.9	697.8
70°	389.2	426.1	521.7	605.5	642.4
72.5°	325.4	367.3	464.6	548.5	575.3
75°	263.4	312.0	411.0	461.3	466.3
77.5°	206.3	256.6	350.6	370.7	380.8
80°	151.0	206.3	263.4	288.5	286.8
82.5°	100.6	157.7	189.5	192.9	189.5
85°	58.7	97.3	105.7	104.0	100.6
87.5°	25.2	38.6	33.5	28.5	23.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)