

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-LD5-65-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-LD5-65-UNV-L850-CD1-U
Description: CRUZE 2x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

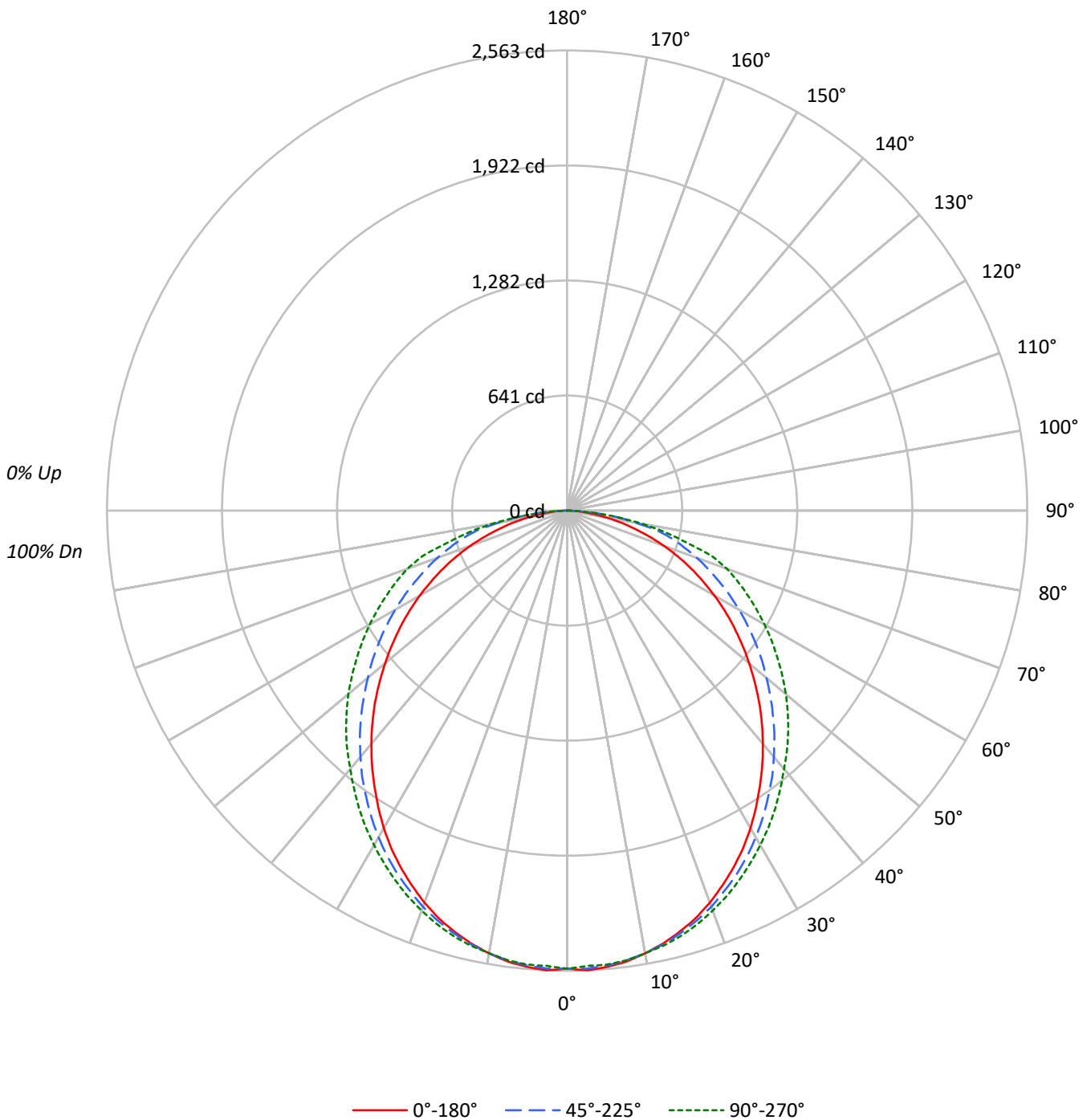
Lumens per Lamp: N/A
Luminaire Lumens: 7258.9 lumens
Efficiency: N/A
Efficacy: 125.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 57.64
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



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Luminous Intensity Polar Plot





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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°	3432	3432	3432
5°	3438	3419	3414
10°	3406	3389	3391
15°	3359	3347	3371
20°	3297	3299	3334
25°	3218	3238	3292
30°	3128	3168	3248
35°	3022	3090	3210
40°	2918	3011	3168
45°	2810	2932	3155
50°	2690	2854	3142
55°	2573	2789	3130
60°	2446	2727	3143
65°	2298	2668	3181
70°	2109	2637	3271
75°	1843	2625	3008
80°	1508	2309	2549
85°	1037	1496	1456



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.2	3.3
10°-20°	686.6	9.5
20°-30°	1026.3	14.1
30°-40°	1217.0	16.8
40°-50°	1251.5	17.2
50°-60°	1144.8	15.8
60°-70°	923.3	12.7
70°-80°	599.4	8.3
80°-90°	168.7	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°	1954.1	26.9
0°-40°	3171.1	43.7
0°-60°	5567.4	76.7
0°-90°	7258.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7258.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2551	2551	2551	2551	2551	
5°	2551	2534	2543	2538	2538	242
15°	2427	2415	2437	2447	2452	684
25°	2193	2193	2235	2252	2269	1009
35°	1872	1889	1951	1990	2022	1171
45°	1514	1541	1622	1696	1741	1167
55°	1136	1173	1279	1380	1430	1016
65°	761	805	933	1054	1106	752
75°	388	459	605	679	686	413
85°	86	143	156	153	148	104
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2550.8	2550.8	2550.8	2550.8	2550.8
2.5°	2563.2	2543.4	2553.3	2548.4	2538.5
5°	2550.8	2533.6	2543.4	2538.5	2538.5
7.5°	2533.6	2516.3	2526.2	2526.2	2526.2
10°	2503.9	2489.1	2503.9	2503.9	2503.9
12.5°	2469.4	2457.0	2474.3	2476.8	2481.7
15°	2427.4	2415.0	2437.3	2447.1	2452.1
17.5°	2380.5	2370.6	2395.3	2407.6	2415.0
20°	2323.7	2316.3	2348.4	2360.7	2370.6
22.5°	2259.5	2259.5	2291.6	2306.4	2323.7
25°	2192.8	2192.8	2234.8	2252.1	2269.3
27.5°	2121.2	2123.6	2170.6	2195.3	2212.5
30°	2042.2	2052.0	2101.4	2131.1	2150.8
32.5°	1958.2	1970.5	2027.3	2064.4	2089.1
35°	1871.8	1889.1	1950.8	1990.3	2022.4
37.5°	1785.3	1807.6	1874.2	1918.7	1950.8
40°	1696.4	1721.1	1790.3	1842.1	1879.2
42.5°	1605.1	1632.2	1708.8	1768.1	1812.5
45°	1513.7	1540.9	1622.4	1696.4	1740.9
47.5°	1417.4	1449.5	1535.9	1622.4	1666.8
50°	1323.6	1358.1	1449.5	1543.3	1590.3
52.5°	1229.7	1269.2	1365.6	1464.3	1511.2
55°	1135.9	1172.9	1279.1	1380.4	1429.8
57.5°	1042.1	1081.6	1192.7	1298.9	1350.7
60°	948.2	990.2	1106.3	1217.4	1269.2
62.5°	851.9	896.4	1019.8	1135.9	1187.8
65°	760.6	805.0	933.4	1054.4	1106.3
67.5°	666.7	716.1	849.5	972.9	1027.3
70°	572.9	627.2	768.0	891.4	945.8
72.5°	479.1	540.8	684.0	807.5	847.0
75°	387.7	459.3	605.0	679.1	686.5
77.5°	303.7	377.8	516.1	545.7	560.5
80°	222.2	303.7	387.7	424.7	422.3
82.5°	148.2	232.1	279.0	284.0	279.0
85°	86.4	143.2	155.6	153.1	148.2
87.5°	37.0	56.8	49.4	42.0	34.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)