

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-LD5-70-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-LD5-70-UNV-L850-CD1-U
Description: CRUZE 2x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

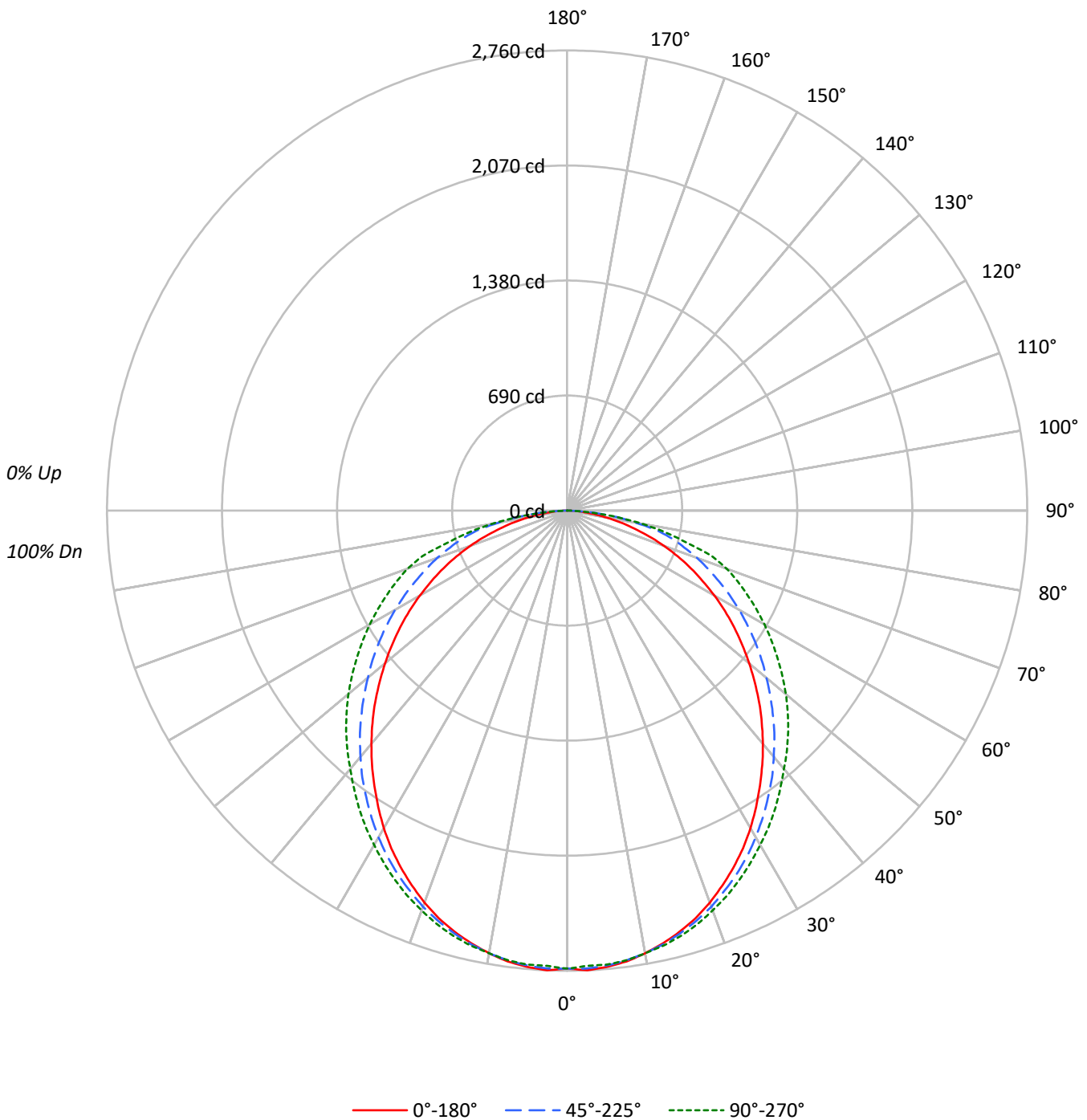
Lumens per Lamp: N/A
Luminaire Lumens: 7816.1 lumens
Efficiency: N/A
Efficacy: 121.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 64.22
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°	3696	3696	3696
5°	3702	3682	3676
10°	3667	3649	3651
15°	3617	3604	3629
20°	3550	3552	3589
25°	3465	3486	3545
30°	3368	3411	3497
35°	3253	3327	3456
40°	3143	3242	3411
45°	3026	3157	3397
50°	2897	3073	3383
55°	2770	3003	3371
60°	2633	2936	3385
65°	2474	2873	3425
70°	2271	2839	3522
75°	1985	2827	3238
80°	1624	2486	2745
85°	1118	1610	1567



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.7	3.3
10°-20°	739.3	9.5
20°-30°	1105.1	14.1
30°-40°	1310.4	16.8
40°-50°	1347.6	17.2
50°-60°	1232.7	15.8
60°-70°	994.2	12.7
70°-80°	645.4	8.3
80°-90°	181.6	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°	2104.1	26.9
0°-40°	3414.5	43.7
0°-60°	5994.8	76.7
0°-90°	7816.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7816.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2747	2747	2747	2747	2747	
5°	2747	2728	2739	2733	2733	261
15°	2614	2600	2624	2635	2640	737
25°	2361	2361	2406	2425	2444	1087
35°	2015	2034	2100	2143	2178	1261
45°	1630	1659	1747	1827	1874	1256
55°	1223	1263	1377	1486	1540	1094
65°	819	867	1005	1135	1191	810
75°	417	495	651	731	739	445
85°	93	154	168	165	160	112
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2746.6	2746.6	2746.6	2746.6	2746.6
2.5°	2759.9	2738.7	2749.3	2744.0	2733.4
5°	2746.6	2728.0	2738.7	2733.4	2733.4
7.5°	2728.0	2709.4	2720.1	2720.1	2720.1
10°	2696.1	2680.2	2696.1	2696.1	2696.1
12.5°	2658.9	2645.6	2664.2	2666.9	2672.2
15°	2613.7	2600.4	2624.3	2635.0	2640.3
17.5°	2563.2	2552.5	2579.1	2592.4	2600.4
20°	2502.0	2494.1	2528.6	2541.9	2552.5
22.5°	2432.9	2432.9	2467.5	2483.4	2502.0
25°	2361.1	2361.1	2406.3	2424.9	2443.5
27.5°	2284.0	2286.7	2337.2	2363.8	2382.4
30°	2198.9	2209.5	2262.7	2294.6	2315.9
32.5°	2108.5	2121.8	2183.0	2222.8	2249.4
35°	2015.4	2034.1	2100.5	2143.1	2177.6
37.5°	1922.4	1946.3	2018.1	2066.0	2100.5
40°	1826.7	1853.3	1927.7	1983.5	2023.4
42.5°	1728.3	1757.5	1840.0	1903.8	1951.6
45°	1629.9	1659.2	1746.9	1826.7	1874.5
47.5°	1526.2	1560.8	1653.8	1746.9	1794.8
50°	1425.2	1462.4	1560.8	1661.8	1712.3
52.5°	1324.1	1366.7	1470.4	1576.7	1627.2
55°	1223.1	1263.0	1377.3	1486.3	1539.5
57.5°	1122.1	1164.6	1284.3	1398.6	1454.4
60°	1021.0	1066.2	1191.2	1310.8	1366.7
62.5°	917.3	965.2	1098.1	1223.1	1278.9
65°	818.9	866.8	1005.1	1135.4	1191.2
67.5°	717.9	771.1	914.7	1047.6	1106.1
70°	616.9	675.4	826.9	959.9	1018.4
72.5°	515.8	582.3	736.5	869.5	912.0
75°	417.4	494.6	651.4	731.2	739.2
77.5°	327.0	406.8	555.7	587.6	603.6
80°	239.3	327.0	417.4	457.3	454.7
82.5°	159.5	249.9	300.5	305.8	300.5
85°	93.1	154.2	167.5	164.9	159.5
87.5°	39.9	61.2	53.2	45.2	37.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)