

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-S-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 (P25694)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-65-S-UNV-L850-CD1-U
Description: CRUZE 2x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7404.1 lumens
Efficiency: N/A
Efficacy: 128.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.33
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')
CIE Type: Direct

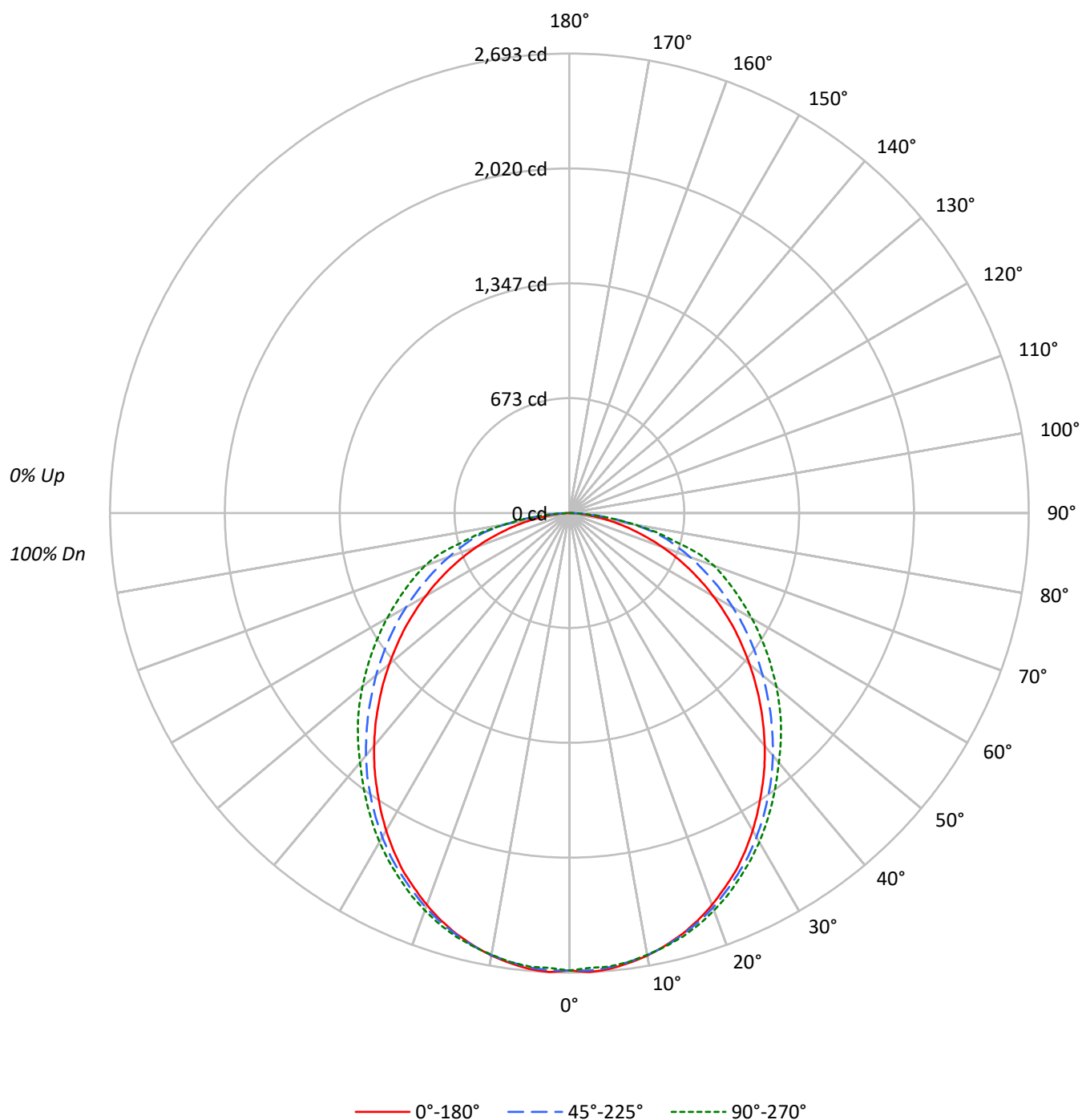
Input Watts (W): 57.64
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83		
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69		
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58		
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50		
5	76	63	53	47	73	61	53	47	59	52	46	57	51	45	55	50	45	43		
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38		
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33		
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30		
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27		
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3606	3606	3606
5°	3616	3594	3588
10°	3582	3561	3560
15°	3535	3516	3532
20°	3468	3457	3485
25°	3391	3384	3424
30°	3290	3305	3363
35°	3178	3215	3288
40°	3064	3120	3218
45°	2936	3014	3179
50°	2804	2910	3129
55°	2667	2815	3085
60°	2510	2726	3057
65°	2338	2641	3060
70°	2122	2580	3119
75°	1839	2555	2785
80°	1471	2231	2320
85°	976	1445	1356



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.4	3.4
10°-20°	720.7	9.7
20°-30°	1074.1	14.5
30°-40°	1264.4	17.1
40°-50°	1284.9	17.4
50°-60°	1155.2	15.6
60°-70°	912.6	12.3
70°-80°	579.0	7.8
80°-90°	159.8	2.2
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°	2048.2	27.7
0°-40°	3312.6	44.7
0°-60°	5752.7	77.7
0°-90°	7404.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7404.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2680	2680	2680	2680	2680	
5°	2683	2661	2673	2668	2668	254
15°	2555	2542	2560	2567	2570	720
25°	2311	2308	2336	2350	2360	1063
35°	1968	1981	2030	2052	2072	1232
45°	1582	1604	1668	1717	1754	1220
55°	1178	1207	1291	1375	1409	1052
65°	774	813	924	1025	1064	766
75°	387	453	589	640	636	412
85°	81	140	150	138	138	100
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2680.4	2680.4	2680.4	2680.4	2680.4
2.5°	2692.7	2673.0	2682.9	2677.9	2668.1
5°	2682.9	2660.7	2673.0	2668.1	2668.1
7.5°	2660.7	2643.5	2653.3	2650.8	2653.3
10°	2633.6	2616.4	2631.1	2631.1	2628.7
12.5°	2596.6	2581.9	2599.1	2599.1	2601.6
15°	2554.8	2542.4	2559.7	2567.1	2569.5
17.5°	2503.0	2490.7	2512.9	2520.3	2527.7
20°	2443.9	2439.0	2461.1	2468.5	2478.4
22.5°	2377.4	2377.4	2399.6	2409.4	2424.2
25°	2310.9	2308.4	2335.5	2350.3	2360.1
27.5°	2232.0	2234.5	2269.0	2283.8	2296.1
30°	2148.3	2153.2	2192.6	2209.9	2227.1
32.5°	2059.6	2069.4	2113.8	2133.5	2150.7
35°	1968.4	1980.7	2030.0	2052.2	2071.9
37.5°	1877.3	1894.5	1946.3	1968.4	1990.6
40°	1781.2	1796.0	1855.1	1882.2	1909.3
42.5°	1682.6	1702.4	1761.5	1800.9	1832.9
45°	1581.6	1603.8	1667.9	1717.1	1754.1
47.5°	1480.6	1510.2	1571.8	1638.3	1670.3
50°	1379.6	1409.2	1478.2	1552.1	1584.1
52.5°	1276.2	1305.7	1384.6	1460.9	1495.4
55°	1177.6	1207.2	1290.9	1374.7	1409.2
57.5°	1074.1	1106.2	1199.8	1286.0	1320.5
60°	973.1	1005.2	1106.2	1197.3	1234.3
62.5°	874.6	909.1	1015.0	1111.1	1148.0
65°	773.6	813.0	923.9	1024.9	1064.3
67.5°	675.0	719.4	835.2	941.1	983.0
70°	576.5	628.2	751.4	859.8	901.7
72.5°	480.4	537.1	667.6	776.0	798.2
75°	386.8	453.3	588.8	640.5	635.6
77.5°	298.1	372.0	500.1	510.0	524.7
80°	216.8	298.1	374.5	394.2	384.3
82.5°	142.9	224.2	268.5	258.7	256.2
85°	81.3	140.4	150.3	138.0	138.0
87.5°	34.5	56.7	49.3	37.0	34.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)