

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: **22CZ-LD5-44SE-RDP-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 (P25713)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-44SE-RDP-UNV-L850-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3024.0 lumens
Efficiency: N/A
Efficacy: 75.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.1')
CIE Type: Direct

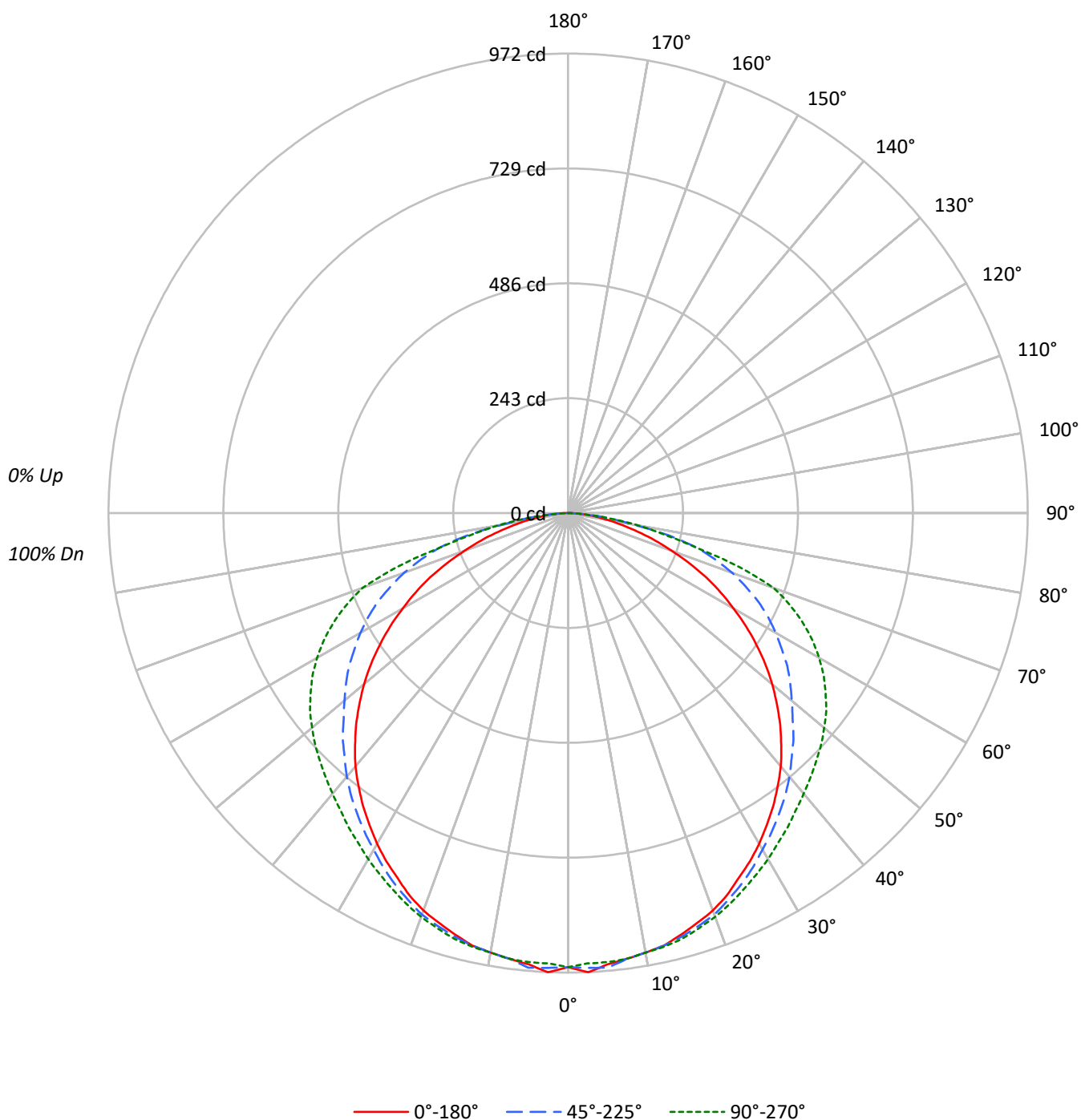
Input Watts (W): 40
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	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	105	101	97	93	97	93	90	93	90	87	89	87	85	83								
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68								
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58	56								
4	81	68	59	52	79	67	58	52	64	57	51	62	56	50	60	54	50	47								
5	74	61	52	45	72	60	51	44	58	50	44	56	49	43	54	48	43	41								
6	68	55	45	39	66	54	45	39	52	44	38	50	43	38	48	42	37	35								
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31								
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	28								
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25								
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24	22								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2585	2585	2585
5°	2577	2591	2564
10°	2557	2548	2557
15°	2537	2536	2563
20°	2516	2524	2556
25°	2474	2491	2548
30°	2440	2454	2553
35°	2400	2433	2572
40°	2359	2414	2613
45°	2298	2396	2690
50°	2227	2385	2793
55°	2129	2412	2910
60°	2001	2432	3036
65°	1850	2454	3147
70°	1608	2429	3200
75°	1337	2299	2428
80°	1049	1533	1815
85°	739	803	831



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.2	3.0
10°-20°	261.9	8.7
20°-30°	399.1	13.2
30°-40°	488.3	16.1
40°-50°	525.4	17.4
50°-60°	509.0	16.8
60°-70°	431.2	14.3
70°-80°	260.6	8.6
80°-90°	57.3	1.9
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°	752.2	24.9
0°-40°	1240.5	41.0
0°-60°	2274.9	75.2
0°-90°	3024.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3024.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	960	960	960	960	960	
5°	958	958	965	960	954	91
15°	923	925	928	930	932	261
25°	852	857	867	874	878	394
35°	756	761	777	798	810	473
45°	634	646	674	716	742	489
55°	486	507	566	632	665	434
65°	322	357	444	514	547	317
75°	153	207	280	284	277	164
85°	38	45	47	45	42	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	960.5	960.5	960.5	960.5	960.5
2.5°	972.2	969.9	962.9	958.2	953.5
5°	958.2	958.2	965.2	960.5	953.5
7.5°	951.1	951.1	951.1	962.9	951.1
10°	944.1	946.4	944.1	953.5	944.1
12.5°	937.0	937.0	937.0	939.4	939.4
15°	922.9	925.3	927.6	930.0	932.3
17.5°	908.8	911.2	915.9	918.2	920.6
20°	894.7	897.1	904.1	904.1	908.8
22.5°	876.0	876.0	885.4	887.7	894.7
25°	852.5	857.2	866.6	873.6	878.3
27.5°	831.3	836.0	845.4	854.8	861.9
30°	807.9	812.6	821.9	836.0	845.4
32.5°	782.0	786.7	800.8	817.2	826.6
35°	756.2	760.9	777.3	798.5	810.2
37.5°	728.0	735.1	753.8	777.3	791.4
40°	699.8	706.9	728.0	753.8	775.0
42.5°	667.0	676.3	699.8	735.1	758.5
45°	634.1	645.8	674.0	716.3	742.1
47.5°	598.8	610.6	643.5	697.5	725.7
50°	563.6	577.7	617.6	676.3	706.9
52.5°	526.0	540.1	591.8	655.2	688.1
55°	486.1	507.3	566.0	631.7	664.6
57.5°	446.2	469.7	535.4	605.9	641.1
60°	403.9	432.1	507.3	577.7	612.9
62.5°	364.0	394.5	476.7	547.2	582.4
65°	321.7	357.0	443.9	514.3	547.2
67.5°	277.1	321.7	406.3	474.4	507.3
70°	232.5	284.2	368.7	432.1	462.6
72.5°	192.6	246.6	326.4	380.4	380.4
75°	152.6	206.7	279.5	284.2	277.1
77.5°	117.4	169.1	218.4	199.6	204.3
80°	86.9	129.2	138.6	145.6	150.3
82.5°	58.7	86.9	89.2	93.9	93.9
85°	37.6	44.6	47.0	44.6	42.3
87.5°	16.4	18.8	14.1	9.4	7.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)