

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-LD5-44-SQP-UNV-L840-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-LD5-44-SQP-UNV-L840-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3336.3 lumens
Efficiency: N/A
Efficacy: 79.8 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

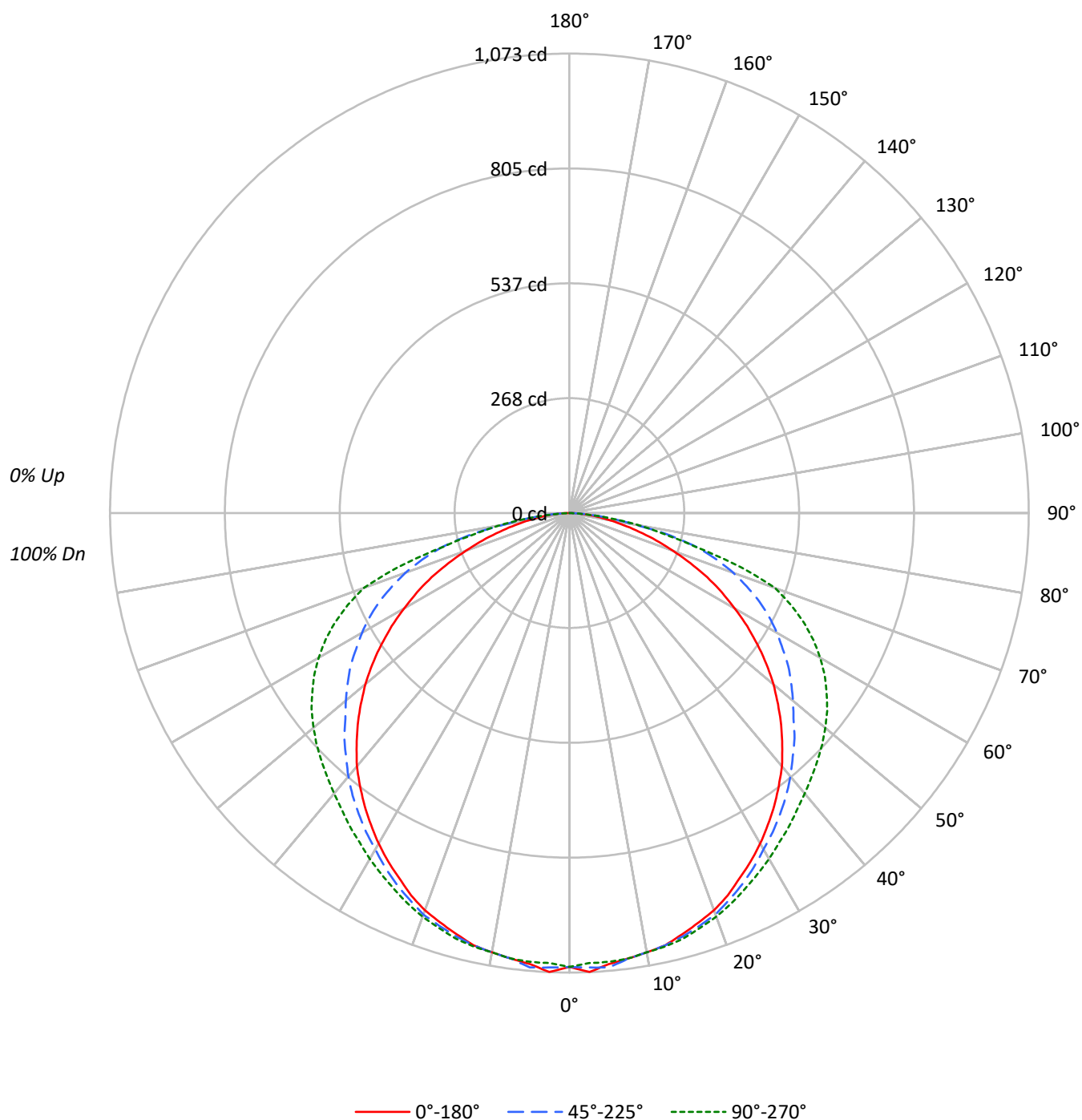
Input Watts (W): 41.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		100
1	108	103	99	95	105	101	97	93	97	93	90		93	90	87		83
2	98	89	82	76	95	87	81	75	84	78	73		80	76	71		68
3	89	78	69	62	86	76	68	62	73	66	61		70	64	59		56
4	81	68	59	52	79	67	58	52	64	57	51		62	56	50		47
5	74	61	52	45	72	60	51	44	58	50	44		56	49	43		41
6	68	55	45	39	66	54	45	39	52	44	38		50	43	38		35
7	63	49	40	34	62	49	40	34	47	39	34		45	39	33		31
8	59	45	36	30	57	44	36	30	43	35	30		42	35	30		28
9	55	41	33	27	54	41	33	27	39	32	27		38	32	27		25
10	51	38	30	24	50	37	30	24	36	29	24		35	29	24		22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2852	2852	2852
5°	2843	2859	2829
10°	2821	2811	2821
15°	2799	2798	2828
20°	2776	2785	2820
25°	2729	2748	2812
30°	2692	2707	2817
35°	2648	2684	2837
40°	2603	2663	2883
45°	2535	2643	2967
50°	2457	2631	3081
55°	2348	2661	3211
60°	2207	2683	3349
65°	2042	2708	3472
70°	1774	2680	3531
75°	1476	2536	2679
80°	1158	1691	2002
85°	815	884	916



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.6	3.0
10°-20°	288.9	8.7
20°-30°	440.3	13.2
30°-40°	538.8	16.1
40°-50°	579.7	17.4
50°-60°	561.5	16.8
60°-70°	475.7	14.3
70°-80°	287.5	8.6
80°-90°	63.2	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°	829.9	24.9
0°-40°	1368.7	41.0
0°-60°	2509.9	75.2
0°-90°	3336.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3336.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1060	1060	1060	1060	1060	
5°	1057	1057	1065	1060	1052	100
15°	1018	1021	1023	1026	1029	288
25°	940	946	956	964	969	434
35°	834	840	858	881	894	522
45°	700	712	744	790	819	539
55°	536	560	624	697	733	479
65°	355	394	490	567	604	350
75°	168	228	308	314	306	181
85°	42	49	52	49	47	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1059.7	1059.7	1059.7	1059.7	1059.7
2.5°	1072.6	1070.1	1062.3	1057.1	1051.9
5°	1057.1	1057.1	1064.9	1059.7	1051.9
7.5°	1049.3	1049.3	1049.3	1062.3	1049.3
10°	1041.6	1044.1	1041.6	1051.9	1041.6
12.5°	1033.8	1033.8	1033.8	1036.4	1036.4
15°	1018.2	1020.8	1023.4	1026.0	1028.6
17.5°	1002.7	1005.3	1010.5	1013.1	1015.6
20°	987.1	989.7	997.5	997.5	1002.7
22.5°	966.4	966.4	976.8	979.4	987.1
25°	940.5	945.7	956.1	963.8	969.0
27.5°	917.2	922.4	932.7	943.1	950.9
30°	891.3	896.5	906.8	922.4	932.7
32.5°	862.8	868.0	883.5	901.6	912.0
35°	834.3	839.5	857.6	880.9	893.9
37.5°	803.2	811.0	831.7	857.6	873.1
40°	772.1	779.9	803.2	831.7	855.0
42.5°	735.8	746.2	772.1	811.0	836.9
45°	699.5	712.5	743.6	790.2	818.7
47.5°	660.7	673.6	709.9	769.5	800.6
50°	621.8	637.4	681.4	746.2	779.9
52.5°	580.4	595.9	652.9	722.9	759.1
55°	536.3	559.6	624.4	697.0	733.2
57.5°	492.3	518.2	590.7	668.5	707.3
60°	445.6	476.7	559.6	637.4	676.2
62.5°	401.6	435.3	526.0	603.7	642.5
65°	355.0	393.8	489.7	567.4	603.7
67.5°	305.7	355.0	448.2	523.4	559.6
70°	256.5	313.5	406.8	476.7	510.4
72.5°	212.5	272.0	360.1	419.7	419.7
75°	168.4	228.0	308.3	313.5	305.7
77.5°	129.5	186.5	241.0	220.2	225.4
80°	95.9	142.5	152.9	160.6	165.8
82.5°	64.8	95.9	98.5	103.6	103.6
85°	41.5	49.2	51.8	49.2	46.6
87.5°	18.1	20.7	15.5	10.4	7.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)