

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

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3292.6 lumens
Efficiency: N/A
Efficacy: 82.3 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

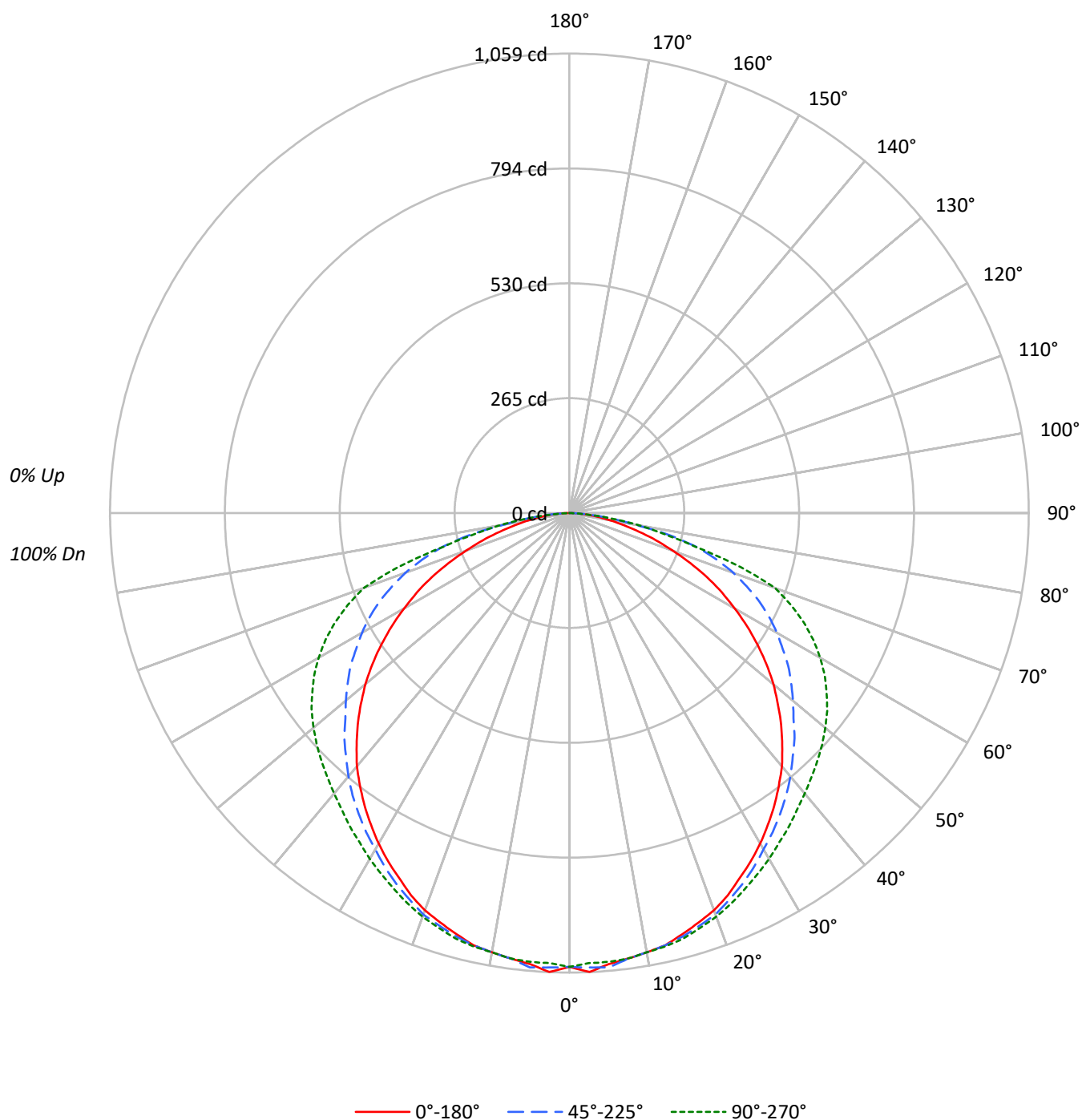
Input Watts (W): 40
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P#

CATALOG NUMBER: 22CZ-LD5-44SE-SQP-UNV-L840-CD1-U

Luminous Intensity Polar Plot



TEST NUMBER: P#

CATALOG NUMBER: 22CZ-LD5-44SE-SQP-UNV-L840-CD1-U

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	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°	2814	2814	2814
5°	2806	2821	2792
10°	2784	2774	2784
15°	2763	2761	2791
20°	2740	2749	2783
25°	2693	2712	2775
30°	2656	2672	2780
35°	2613	2649	2800
40°	2569	2629	2845
45°	2502	2608	2929
50°	2425	2597	3041
55°	2318	2626	3169
60°	2178	2648	3306
65°	2014	2672	3426
70°	1751	2645	3484
75°	1456	2503	2644
80°	1142	1669	1975
85°	804	873	904



TEST NUMBER: P#

CATALOG NUMBER: 22CZ-LD5-44SE-SQP-UNV-L840-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.3	3.0
10°-20°	285.2	8.7
20°-30°	434.6	13.2
30°-40°	531.7	16.1
40°-50°	572.1	17.4
50°-60°	554.2	16.8
60°-70°	469.5	14.3
70°-80°	283.8	8.6
80°-90°	62.3	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°	819.0	24.9
0°-40°	1350.7	41.0
0°-60°	2477.0	75.2
0°-90°	3292.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3292.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1046	1046	1046	1046	1046	
5°	1043	1043	1051	1046	1038	99
15°	1005	1008	1010	1013	1015	284
25°	928	933	944	951	956	428
35°	823	828	846	869	882	515
45°	690	703	734	780	808	532
55°	529	552	616	688	724	473
65°	350	389	483	560	596	345
75°	166	225	304	309	302	179
85°	41	49	51	49	46	46
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 22CZ-LD5-44SE-SQP-UNV-L840-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1045.8	1045.8	1045.8	1045.8	1045.8
2.5°	1058.6	1056.1	1048.4	1043.3	1038.2
5°	1043.3	1043.3	1050.9	1045.8	1038.2
7.5°	1035.6	1035.6	1035.6	1048.4	1035.6
10°	1027.9	1030.5	1027.9	1038.2	1027.9
12.5°	1020.3	1020.3	1020.3	1022.8	1022.8
15°	1004.9	1007.5	1010.0	1012.6	1015.1
17.5°	989.6	992.1	997.2	999.8	1002.4
20°	974.2	976.8	984.5	984.5	989.6
22.5°	953.8	953.8	964.0	966.6	974.2
25°	928.2	933.3	943.5	951.2	956.3
27.5°	905.2	910.3	920.5	930.8	938.4
30°	879.6	884.7	895.0	910.3	920.5
32.5°	851.5	856.6	871.9	889.8	900.1
35°	823.4	828.5	846.4	869.4	882.2
37.5°	792.7	800.3	820.8	846.4	861.7
40°	762.0	769.7	792.7	820.8	843.8
42.5°	726.2	736.4	762.0	800.3	825.9
45°	690.4	703.2	733.9	779.9	808.0
47.5°	652.0	664.8	700.6	759.4	790.1
50°	613.7	629.0	672.5	736.4	769.7
52.5°	572.8	588.1	644.4	713.4	749.2
55°	529.3	552.3	616.2	687.8	723.6
57.5°	485.8	511.4	583.0	659.7	698.1
60°	439.8	470.5	552.3	629.0	667.4
62.5°	396.3	429.6	519.1	595.8	634.1
65°	350.3	388.7	483.3	560.0	595.8
67.5°	301.7	350.3	442.4	516.5	552.3
70°	253.1	309.4	401.5	470.5	503.7
72.5°	209.7	268.5	355.4	414.2	414.2
75°	166.2	225.0	304.3	309.4	301.7
77.5°	127.9	184.1	237.8	217.3	222.5
80°	94.6	140.6	150.9	158.5	163.6
82.5°	63.9	94.6	97.2	102.3	102.3
85°	40.9	48.6	51.1	48.6	46.0
87.5°	17.9	20.5	15.3	10.2	7.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)