

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-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-RDP-UNV-L840-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2795.6 lumens
Efficiency: N/A
Efficacy: 69.9 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

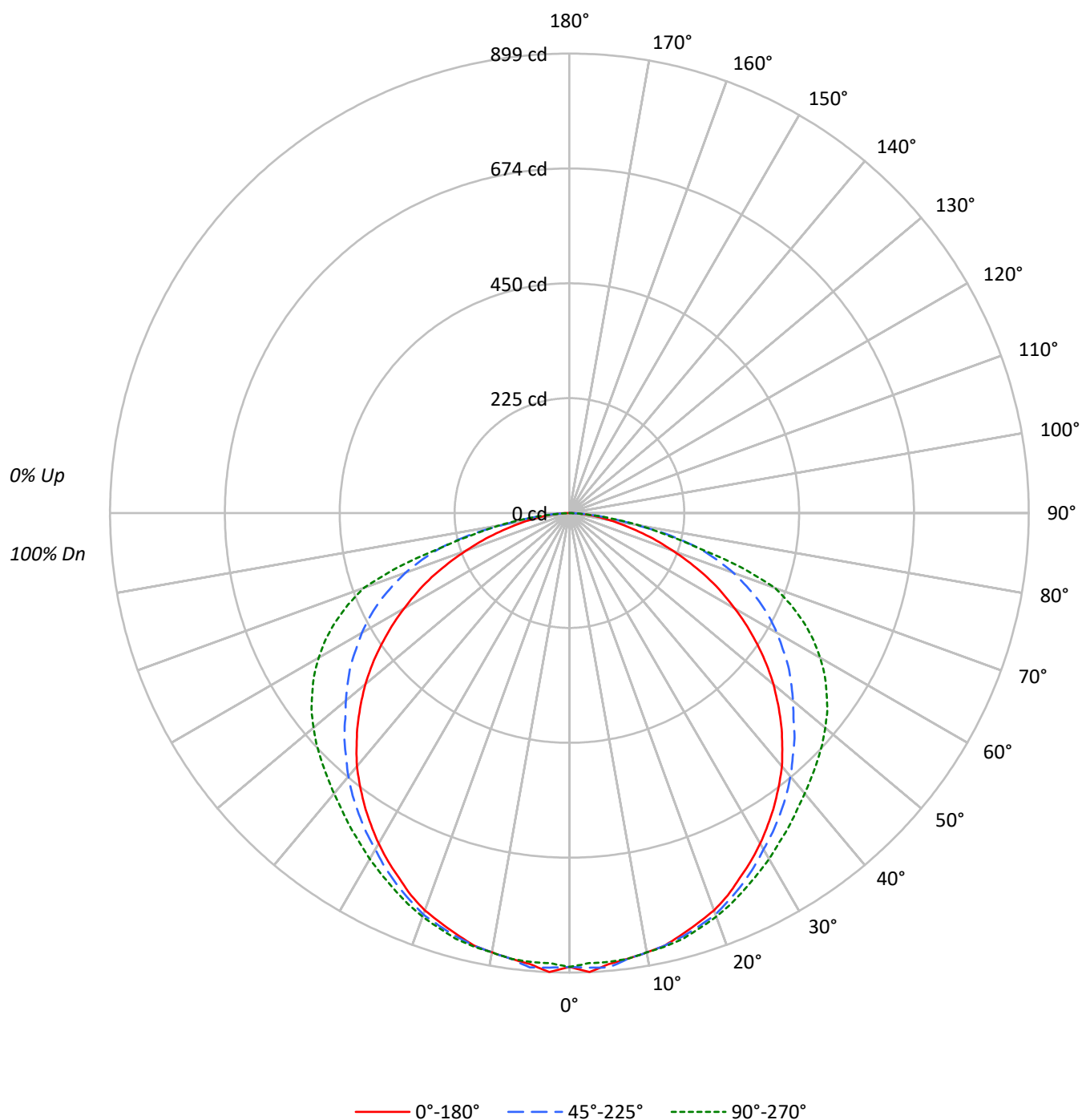
Input Watts (W): 40
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P#

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

Luminous Intensity Polar Plot





TEST NUMBER: P#

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

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	108	103	99	95	105	101	97	93	97	93	90		93	90	87		89
2	98	89	82	76	95	87	81	75	84	78	73		80	76	71		77
3	89	78	69	62	86	76	68	62	73	66	61		70	64	59		68
4	81	68	59	52	79	67	58	52	64	57	51		62	56	50		60
5	74	61	52	45	72	60	51	44	58	50	44		56	49	43		54
6	68	55	45	39	66	54	45	39	52	44	38		50	43	38		48
7	63	49	40	34	62	49	40	34	47	39	34		45	39	33		44
8	59	45	36	30	57	44	36	30	43	35	30		42	35	30		40
9	55	41	33	27	54	41	33	27	39	32	27		38	32	27		37
10	51	38	30	24	50	37	30	24	36	29	24		35	29	24		35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2389	2389	2389
5°	2382	2396	2371
10°	2364	2356	2364
15°	2346	2345	2369
20°	2326	2333	2363
25°	2287	2303	2356
30°	2255	2269	2361
35°	2219	2249	2377
40°	2181	2232	2415
45°	2125	2215	2486
50°	2058	2205	2582
55°	1968	2229	2690
60°	1849	2248	2806
65°	1710	2269	2909
70°	1487	2246	2959
75°	1236	2126	2245
80°	969	1417	1677
85°	682	741	768



TEST NUMBER: P#

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.3	3.0
10°-20°	242.1	8.7
20°-30°	369.0	13.2
30°-40°	451.4	16.1
40°-50°	485.8	17.4
50°-60°	470.5	16.8
60°-70°	398.6	14.3
70°-80°	240.9	8.6
80°-90°	52.9	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°	695.4	24.9
0°-40°	1146.8	41.0
0°-60°	2103.1	75.2
0°-90°	2795.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2795.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	888	888	888	888	888	
5°	886	886	892	888	881	84
15°	853	855	858	860	862	241
25°	788	792	801	808	812	364
35°	699	703	719	738	749	437
45°	586	597	623	662	686	452
55°	449	469	523	584	614	401
65°	297	330	410	476	506	293
75°	141	191	258	263	256	152
85°	35	41	43	41	39	39
90°	0	0	0	0	0	



TEST NUMBER: P#

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	887.9	887.9	887.9	887.9	887.9
2.5°	898.8	896.6	890.1	885.8	881.4
5°	885.8	885.8	892.3	887.9	881.4
7.5°	879.3	879.3	879.3	890.1	879.3
10°	872.8	874.9	872.8	881.4	872.8
12.5°	866.2	866.2	866.2	868.4	868.4
15°	853.2	855.4	857.6	859.7	861.9
17.5°	840.2	842.4	846.7	848.9	851.0
20°	827.2	829.3	835.8	835.8	840.2
22.5°	809.8	809.8	818.5	820.6	827.2
25°	788.1	792.4	801.1	807.6	812.0
27.5°	768.5	772.9	781.6	790.3	796.8
30°	746.8	751.2	759.9	772.9	781.6
32.5°	723.0	727.3	740.3	755.5	764.2
35°	699.1	703.4	718.6	738.1	749.0
37.5°	673.0	679.5	696.9	718.6	731.6
40°	647.0	653.5	673.0	696.9	716.4
42.5°	616.6	625.3	647.0	679.5	701.2
45°	586.2	597.0	623.1	662.2	686.0
47.5°	553.6	564.5	594.9	644.8	670.8
50°	521.0	534.1	571.0	625.3	653.5
52.5°	486.3	499.3	547.1	605.7	636.1
55°	449.4	468.9	523.2	584.0	614.4
57.5°	412.5	434.2	495.0	560.1	592.7
60°	373.4	399.5	468.9	534.1	566.6
62.5°	336.5	364.7	440.7	505.8	538.4
65°	297.4	330.0	410.3	475.5	505.8
67.5°	256.2	297.4	375.6	438.5	468.9
70°	214.9	262.7	340.9	399.5	427.7
72.5°	178.0	228.0	301.8	351.7	351.7
75°	141.1	191.1	258.4	262.7	256.2
77.5°	108.6	156.3	201.9	184.5	188.9
80°	80.3	119.4	128.1	134.6	138.9
82.5°	54.3	80.3	82.5	86.8	86.8
85°	34.7	41.2	43.4	41.2	39.1
87.5°	15.2	17.4	13.0	8.7	6.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)