

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-LD5-34-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-LD5-34-RDP-UNV-L840-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2234.5 lumens
Efficiency: N/A
Efficacy: 76.0 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

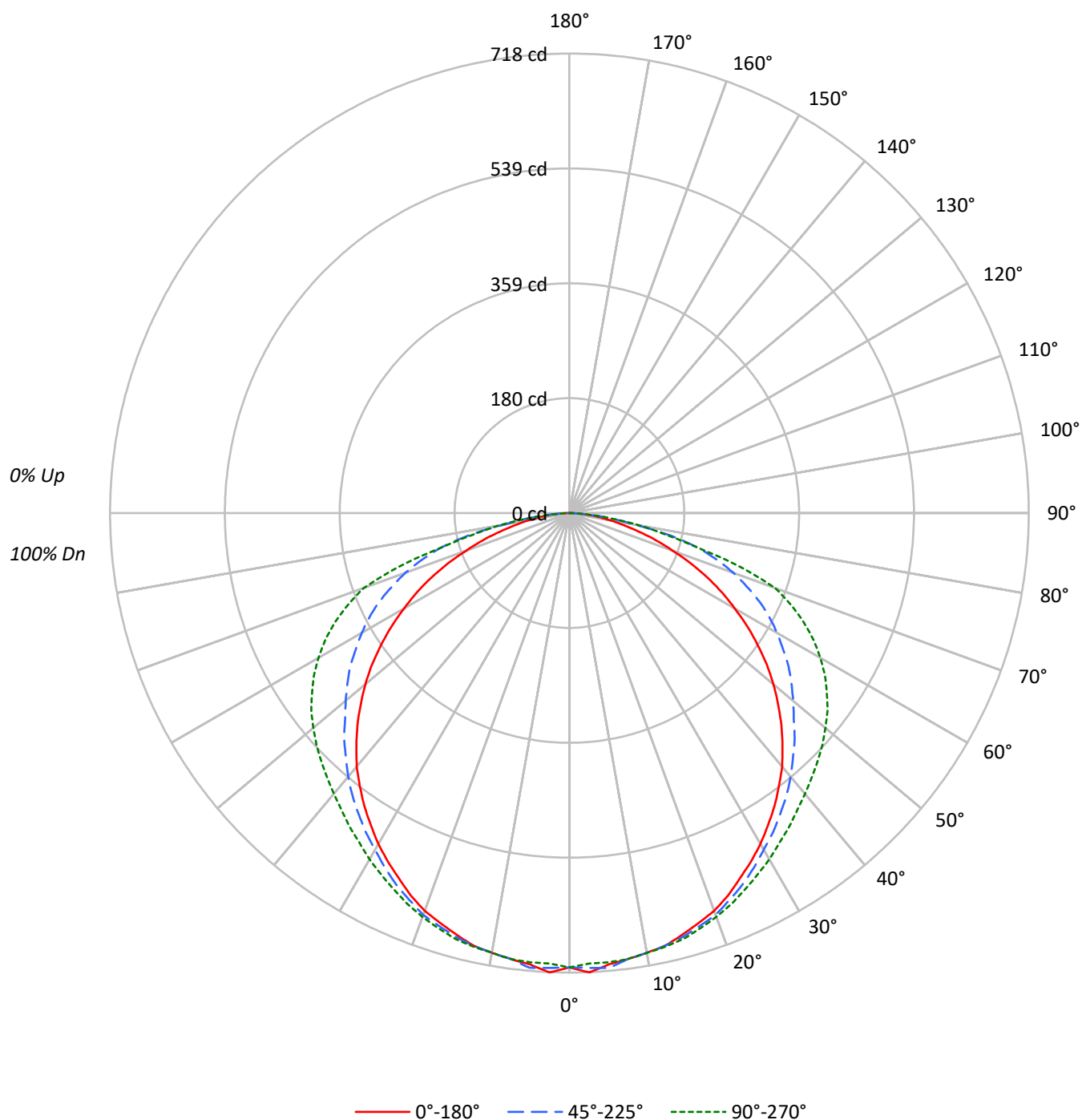
Input Watts (W): 29.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P#

CATALOG NUMBER: 22CZ-LD5-34-RDP-UNV-L840-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 22CZ-LD5-34-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	30	10
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	108	103	99	95		105	101	97	93		97	93	90		93	90	87		89	87	85
2	98	89	82	76		95	87	81	75		84	78	73		80	76	71		77	73	70
3	89	78	69	62		86	76	68	62		73	66	61		70	64	59		68	63	58
4	81	68	59	52		79	67	58	52		64	57	51		62	56	50		60	54	50
5	74	61	52	45		72	60	51	44		58	50	44		56	49	43		54	48	43
6	68	55	45	39		66	54	45	39		52	44	38		50	43	38		48	42	37
7	63	49	40	34		62	49	40	34		47	39	34		45	39	33		44	38	33
8	59	45	36	30		57	44	36	30		43	35	30		42	35	30		40	34	29
9	55	41	33	27		54	41	33	27		39	32	27		38	32	27		37	31	27
10	51	38	30	24		50	37	30	24		36	29	24		35	29	24		35	28	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1910	1910	1910
5°	1904	1915	1895
10°	1890	1883	1890
15°	1875	1874	1894
20°	1860	1865	1889
25°	1828	1840	1883
30°	1803	1813	1887
35°	1774	1798	1900
40°	1743	1784	1931
45°	1698	1770	1988
50°	1646	1762	2064
55°	1573	1782	2150
60°	1478	1797	2243
65°	1367	1814	2325
70°	1188	1795	2365
75°	988	1699	1794
80°	775	1133	1341
85°	546	593	613



TEST NUMBER: P#

CATALOG NUMBER: 22CZ-LD5-34-RDP-UNV-L840-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.4	3.0
10°-20°	193.5	8.7
20°-30°	294.9	13.2
30°-40°	360.8	16.1
40°-50°	388.3	17.4
50°-60°	376.1	16.8
60°-70°	318.6	14.3
70°-80°	192.6	8.6
80°-90°	42.3	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°	555.8	24.9
0°-40°	916.7	41.0
0°-60°	1681.0	75.2
0°-90°	2234.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2234.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	710	710	710	710	710	
5°	708	708	713	710	704	67
15°	682	684	686	687	689	193
25°	630	633	640	646	649	291
35°	559	562	574	590	599	350
45°	468	477	498	529	548	361
55°	359	375	418	467	491	321
65°	238	264	328	380	404	234
75°	113	153	206	210	205	121
85°	28	33	35	33	31	31
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 22CZ-LD5-34-RDP-UNV-L840-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	709.8	709.8	709.8	709.8	709.8
2.5°	718.4	716.7	711.5	708.0	704.5
5°	708.0	708.0	713.2	709.8	704.5
7.5°	702.8	702.8	702.8	711.5	702.8
10°	697.6	699.3	697.6	704.5	697.6
12.5°	692.4	692.4	692.4	694.1	694.1
15°	682.0	683.7	685.5	687.2	688.9
17.5°	671.6	673.3	676.8	678.5	680.2
20°	661.2	662.9	668.1	668.1	671.6
22.5°	647.3	647.3	654.2	656.0	661.2
25°	629.9	633.4	640.3	645.5	649.0
27.5°	614.3	617.8	624.7	631.7	636.9
30°	597.0	600.4	607.4	617.8	624.7
32.5°	577.9	581.3	591.7	603.9	610.8
35°	558.8	562.2	574.4	590.0	598.7
37.5°	538.0	543.2	557.0	574.4	584.8
40°	517.1	522.3	538.0	557.0	572.7
42.5°	492.8	499.8	517.1	543.2	560.5
45°	468.5	477.2	498.0	529.3	548.4
47.5°	442.5	451.2	475.5	515.4	536.2
50°	416.5	426.9	456.4	499.8	522.3
52.5°	388.7	399.1	437.3	484.2	508.5
55°	359.2	374.8	418.2	466.8	491.1
57.5°	329.7	347.1	395.7	447.7	473.7
60°	298.5	319.3	374.8	426.9	452.9
62.5°	269.0	291.5	352.3	404.3	430.4
65°	237.7	263.8	328.0	380.0	404.3
67.5°	204.8	237.7	300.2	350.5	374.8
70°	171.8	210.0	272.4	319.3	341.9
72.5°	142.3	182.2	241.2	281.1	281.1
75°	112.8	152.7	206.5	210.0	204.8
77.5°	86.8	124.9	161.4	147.5	151.0
80°	64.2	95.4	102.4	107.6	111.1
82.5°	43.4	64.2	65.9	69.4	69.4
85°	27.8	33.0	34.7	33.0	31.2
87.5°	12.1	13.9	10.4	6.9	5.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)