

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: CORELITE

Report Number: P219947

Luminaire Tested: **R3-WL-4L30-LD5-UNV-14**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P219947
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35869)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R3-WL-4L30-LD5-UNV-14
Description: CLASS R3 1X4 RECESSED LED LUMIANIRE
WITH A FROSTED PRISMATIC ROUND LENS
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

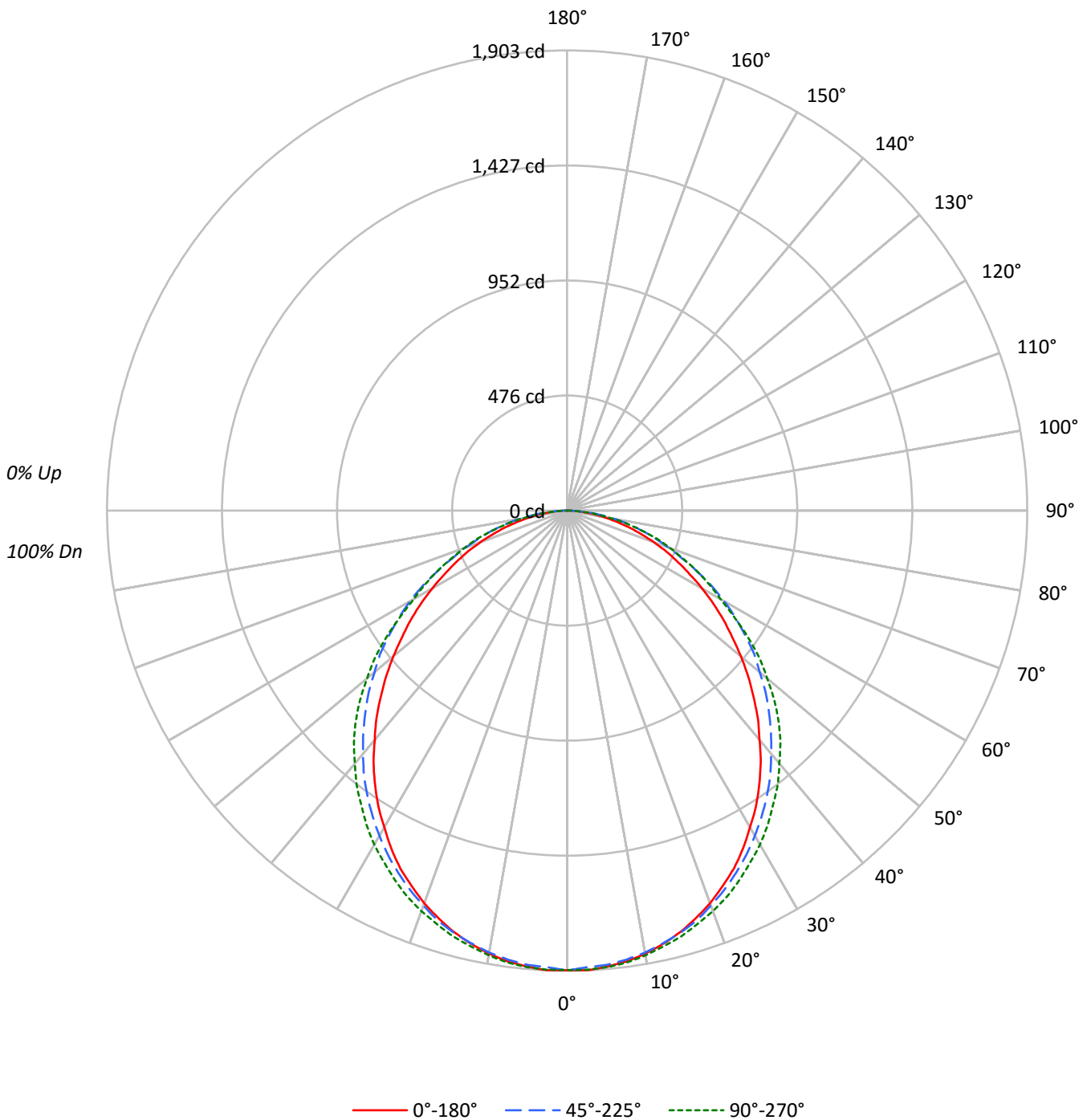
Lumens per Lamp: N/A
Luminaire Lumens: 5020.1 lumens
Efficiency: N/A
Efficacy: 115.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.25 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 43.3
Input Voltage (V): 120
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	81	76	82	78	74	79	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44
6	71	58	49	42	69	57	48	42	55	47	42	53	47	41	52	46	41	39
7	66	52	44	38	64	51	43	37	50	43	37	48	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5114	5114	5114
5°	5113	5093	5120
10°	5084	5070	5104
15°	5030	5037	5078
20°	4948	4977	5048
25°	4848	4907	5004
30°	4701	4825	4957
35°	4551	4731	4879
40°	4348	4612	4796
45°	4149	4491	4711
50°	3926	4355	4522
55°	3707	4212	4282
60°	3472	4038	3943
65°	3232	3757	3773
70°	2991	3502	3561
75°	2704	3328	3328
80°	2363	3099	2906
85°	2007	2547	2238



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.6	3.6
10°-20°	511.2	10.2
20°-30°	763.5	15.2
30°-40°	899.7	17.9
40°-50°	904.0	18.0
50°-60°	782.0	15.6
60°-70°	565.6	11.3
70°-80°	325.2	6.5
80°-90°	89.2	1.8
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°	1454.3	29.0
0°-40°	2354.0	46.9
0°-60°	4040.1	80.5
0°-90°	5020.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5020.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1900	1900	1900	1900	1900	
5°	1893	1893	1885	1895	1895	180
15°	1805	1808	1808	1823	1823	509
25°	1633	1638	1653	1680	1685	750
35°	1385	1403	1440	1478	1485	865
45°	1090	1123	1180	1228	1238	841
55°	790	828	898	925	913	706
65°	508	543	590	593	593	504
75°	260	288	320	330	320	276
85°	65	78	82	78	72	75
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1900.4	1900.4	1900.4	1900.4	1900.4
2.5°	1902.9	1900.4	1890.4	1900.4	1900.4
5°	1892.9	1892.9	1885.4	1895.4	1895.4
7.5°	1880.4	1877.9	1872.9	1882.9	1885.4
10°	1860.4	1860.4	1855.4	1867.9	1867.9
12.5°	1835.4	1835.4	1832.9	1847.9	1845.4
15°	1805.4	1807.9	1807.9	1822.9	1822.9
17.5°	1767.9	1772.9	1777.9	1795.4	1792.9
20°	1727.9	1732.9	1737.9	1760.4	1762.9
22.5°	1680.3	1687.8	1697.8	1725.4	1727.9
25°	1632.8	1637.8	1652.8	1680.3	1685.3
27.5°	1575.3	1585.3	1605.3	1637.8	1640.3
30°	1512.8	1530.3	1552.8	1587.8	1595.3
32.5°	1452.8	1467.8	1497.8	1535.3	1542.8
35°	1385.3	1402.8	1440.3	1477.8	1485.3
37.5°	1315.3	1332.8	1380.3	1420.3	1430.3
40°	1237.8	1262.8	1312.8	1357.8	1365.3
42.5°	1167.7	1190.2	1247.8	1292.8	1305.3
45°	1090.2	1122.7	1180.2	1227.8	1237.8
47.5°	1015.2	1045.2	1112.7	1157.7	1162.7
50°	937.7	975.2	1040.2	1085.2	1080.2
52.5°	860.2	900.2	975.2	1002.7	1002.7
55°	790.2	827.7	897.7	925.2	912.7
57.5°	717.6	757.7	825.2	842.7	817.7
60°	645.1	682.6	750.2	747.7	732.6
62.5°	572.6	612.6	672.6	667.6	662.6
65°	507.6	542.6	590.1	592.6	592.6
67.5°	445.1	480.1	512.6	525.1	517.6
70°	380.1	415.1	445.1	457.6	452.6
72.5°	317.6	355.1	380.1	395.1	390.1
75°	260.1	287.6	320.1	330.1	320.1
77.5°	202.5	230.0	260.1	265.1	255.1
80°	152.5	175.0	200.0	195.0	187.5
82.5°	107.5	125.0	140.0	132.5	127.5
85°	65.0	77.5	82.5	77.5	72.5
87.5°	27.5	32.5	32.5	27.5	27.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)