

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: P220195

Luminaire Tested: **R3-WL-4L30-LD5-UNV-24**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220195
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35861)
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-24
Description: CLASS R3 2X4 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: 5922.9 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.33 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

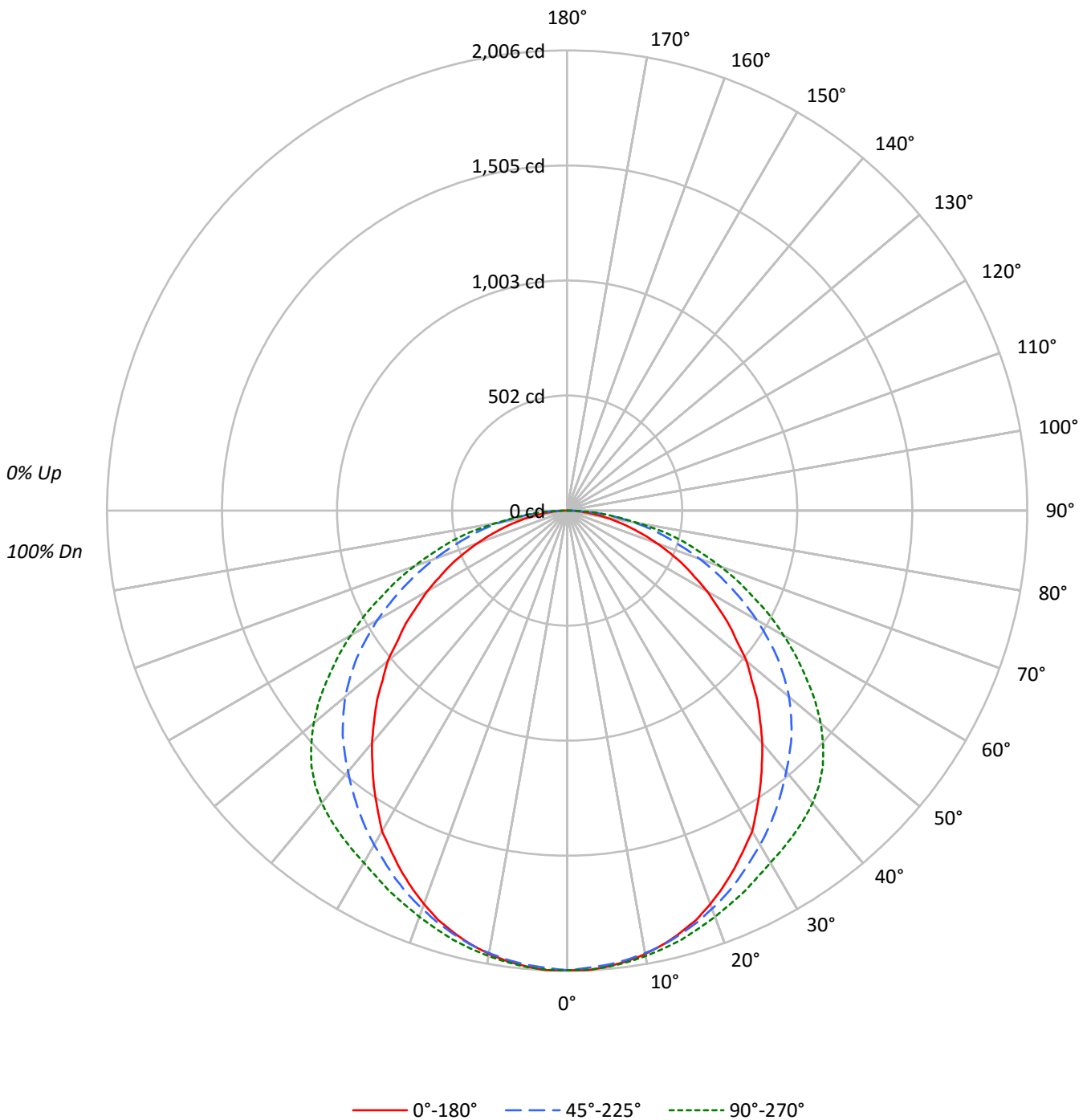
Input Watts (W): 59.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	103	99	95	106	101	97	93	97	93	90		93	90	88		89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74		81	76	72		78	74	71	69
3	89	79	70	63	87	77	69	63	74	67	62		71	65	61		69	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52		63	57	52		61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	39		51	44	39		50	43	39	37
7	64	50	41	35	62	50	41	35	48	40	35		47	40	35		45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31		43	36	31		41	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28		39	33	28		38	32	28	26
10	52	39	31	26	51	38	31	25	37	30	25		36	30	25		35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2696	2696	2696
5°	2696	2685	2698
10°	2681	2676	2695
15°	2655	2663	2696
20°	2614	2644	2698
25°	2558	2628	2719
30°	2507	2614	2754
35°	2412	2609	2831
40°	2324	2610	2924
45°	2231	2634	2999
50°	2138	2643	3021
55°	2014	2626	2985
60°	1894	2569	2933
65°	1779	2491	2859
70°	1635	2414	2792
75°	1478	2334	2731
80°	1291	2294	2446
85°	1119	2058	2269



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.4	3.2
10°-20°	541.0	9.1
20°-30°	818.3	13.8
30°-40°	998.0	16.8
40°-50°	1062.1	17.9
50°-60°	973.6	16.4
60°-70°	748.4	12.6
70°-80°	453.4	7.7
80°-90°	138.7	2.3
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°	1548.7	26.1
0°-40°	2546.7	43.0
0°-60°	4582.5	77.4
0°-90°	5922.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5922.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2004	2004	2004	2004	2004	
5°	1996	1994	1988	1998	1998	189
15°	1906	1908	1912	1929	1935	537
25°	1723	1737	1770	1814	1831	794
35°	1468	1504	1588	1686	1723	918
45°	1172	1227	1384	1531	1576	903
55°	859	933	1120	1241	1272	766
65°	559	629	782	876	898	552
75°	284	347	449	516	525	303
85°	72	108	133	149	147	83
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2003.7	2003.7	2003.7	2003.7	2003.7
2.5°	2005.7	2001.7	1995.9	2003.7	2003.7
5°	1995.9	1993.9	1988.0	1997.8	1997.8
7.5°	1982.1	1980.2	1976.3	1988.0	1986.1
10°	1962.5	1960.6	1958.6	1972.3	1972.3
12.5°	1937.0	1937.0	1939.0	1952.7	1954.7
15°	1905.7	1907.6	1911.6	1929.2	1935.1
17.5°	1870.4	1872.3	1882.1	1905.7	1909.6
20°	1825.3	1831.2	1846.9	1878.2	1884.1
22.5°	1776.3	1786.1	1811.6	1846.9	1856.7
25°	1723.3	1737.1	1770.4	1813.5	1831.2
27.5°	1666.5	1682.2	1725.3	1780.2	1799.8
30°	1613.5	1629.2	1682.2	1750.8	1772.4
32.5°	1539.0	1566.5	1637.1	1717.5	1748.8
35°	1468.5	1503.8	1588.1	1686.1	1723.3
37.5°	1394.0	1439.1	1537.1	1656.7	1695.9
40°	1323.4	1370.4	1486.1	1619.4	1664.5
42.5°	1245.0	1299.9	1435.1	1578.3	1625.3
45°	1172.4	1227.3	1384.2	1531.2	1576.3
47.5°	1090.1	1154.8	1323.4	1476.3	1513.6
50°	1021.5	1082.2	1262.6	1403.8	1443.0
52.5°	931.3	1011.7	1192.0	1325.3	1362.6
55°	858.7	933.2	1119.5	1241.0	1272.4
57.5°	774.4	864.6	1037.1	1156.7	1184.2
60°	703.8	782.3	954.8	1064.6	1090.1
62.5°	627.4	711.7	868.5	970.5	999.9
65°	558.8	629.3	782.3	876.4	897.9
67.5°	486.2	558.8	698.0	784.2	805.8
70°	415.6	492.1	613.7	692.1	709.7
72.5°	347.0	413.7	527.4	603.9	613.7
75°	284.3	347.0	449.0	515.6	525.4
77.5°	225.5	282.3	374.5	427.4	431.3
80°	166.6	221.5	296.0	323.5	315.7
82.5°	117.6	160.8	215.7	221.5	217.6
85°	72.5	107.8	133.3	149.0	147.0
87.5°	31.4	49.0	68.6	64.7	68.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)