

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: P220237

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220237
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35864)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R3-WN-4L30-LD5-UNV-24
Description: CLASS R3 2X4 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & NANO-PRISM INLAY
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5755.3 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.36 / 1.43
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

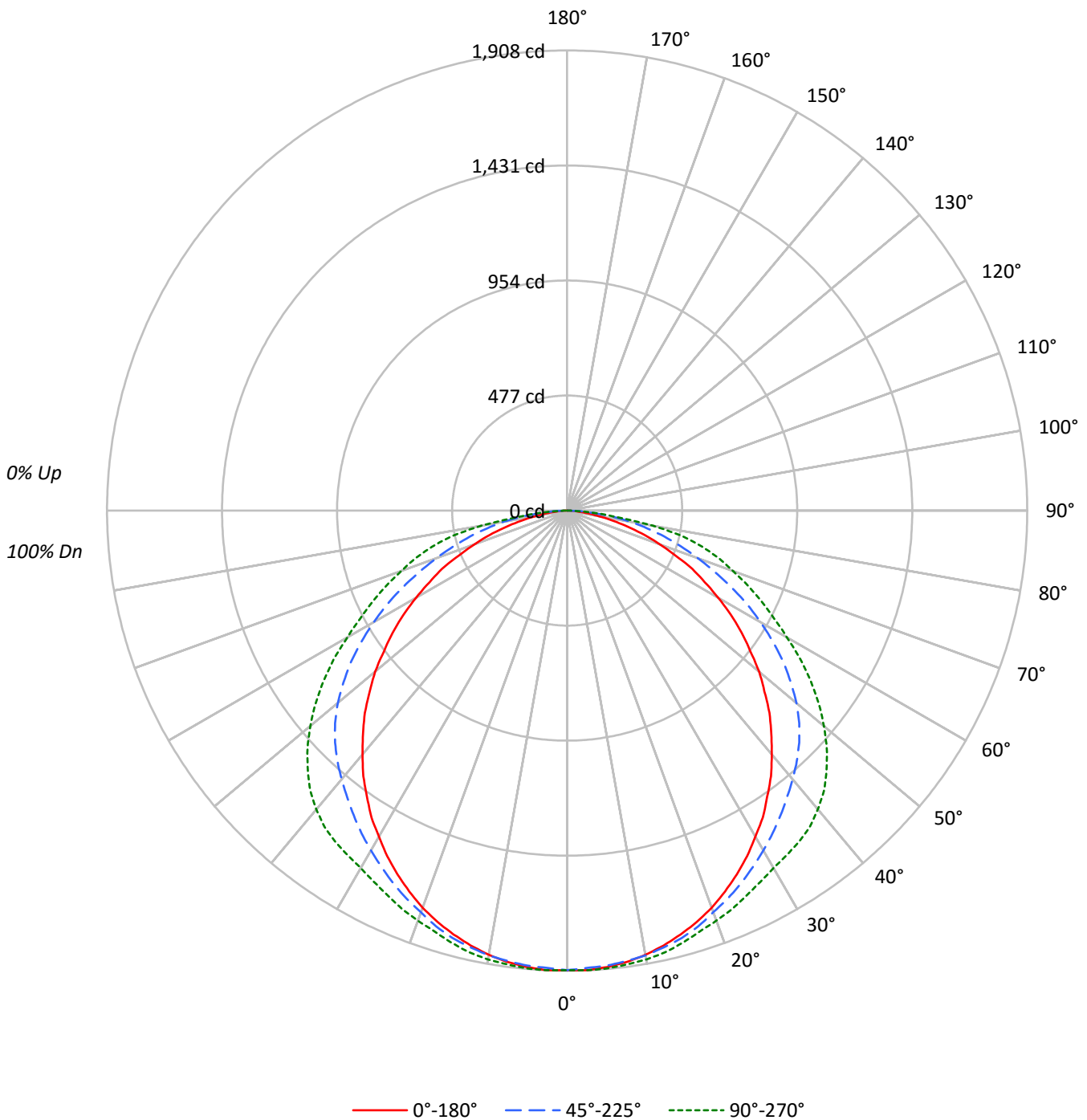
Input Watts (W): 59.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	99	95	106	101	97	94	97	94	91	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	64	87	77	69	63	74	67	62	71	66	61	69	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	55	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	46	40	67	55	46	40	53	45	39	51	44	39	49	43	39	37
7	64	50	41	35	62	49	41	35	48	40	35	46	40	34	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	41	33	28	40	33	28	39	32	28	38	32	27	26
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2564	2564	2564
5°	2566	2558	2574
10°	2555	2558	2582
15°	2534	2556	2584
20°	2510	2538	2591
25°	2471	2532	2614
30°	2425	2528	2659
35°	2377	2534	2753
40°	2318	2555	2841
45°	2257	2589	2895
50°	2175	2598	2910
55°	2074	2566	2893
60°	1947	2490	2833
65°	1823	2391	2827
70°	1612	2268	2877
75°	1356	2171	3017
80°	1033	2066	2780
85°	696	1513	1846



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.6	3.1
10°-20°	518.4	9.0
20°-30°	789.3	13.7
30°-40°	972.6	16.9
40°-50°	1044.1	18.1
50°-60°	958.5	16.7
60°-70°	733.1	12.7
70°-80°	444.5	7.7
80°-90°	114.2	2.0
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°	1488.3	25.9
0°-40°	2460.8	42.8
0°-60°	4463.4	77.6
0°-90°	5755.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5755.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1906	1906	1906	1906	1906	
5°	1900	1898	1894	1904	1906	180
15°	1819	1825	1835	1853	1855	513
25°	1664	1680	1706	1749	1761	766
35°	1447	1470	1543	1637	1676	906
45°	1186	1223	1361	1484	1521	912
55°	884	943	1094	1200	1233	789
65°	572	629	751	851	888	561
75°	261	318	418	533	580	281
85°	45	76	98	112	120	58
90°	0	0	0	0	0	



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CATALOG NUMBER: R3-WN-4L30-LD5-UNV-24

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1905.7	1905.7	1905.7	1905.7	1905.7
2.5°	1907.6	1905.7	1897.8	1905.7	1907.6
5°	1899.8	1897.8	1893.9	1903.7	1905.7
7.5°	1888.0	1888.0	1884.1	1897.8	1897.8
10°	1870.4	1870.4	1872.3	1886.1	1890.0
12.5°	1846.9	1850.8	1854.7	1874.3	1876.3
15°	1819.4	1825.3	1835.1	1852.7	1854.7
17.5°	1788.0	1795.9	1807.6	1825.3	1829.2
20°	1752.7	1760.6	1772.4	1801.8	1809.6
22.5°	1709.6	1725.3	1741.0	1776.3	1788.0
25°	1664.5	1680.2	1705.7	1748.8	1760.6
27.5°	1615.5	1631.2	1666.5	1717.5	1735.1
30°	1560.6	1580.2	1627.3	1686.1	1711.6
32.5°	1509.6	1527.3	1586.1	1660.6	1693.9
35°	1446.9	1470.4	1543.0	1637.1	1676.3
37.5°	1388.1	1411.6	1497.9	1613.5	1652.8
40°	1319.5	1350.8	1454.7	1580.2	1617.5
42.5°	1252.8	1288.1	1409.6	1537.1	1576.3
45°	1186.1	1223.4	1360.6	1484.2	1521.4
47.5°	1109.7	1154.8	1305.7	1427.3	1460.6
50°	1039.1	1088.1	1241.0	1358.7	1390.0
52.5°	956.8	1017.5	1168.5	1286.1	1315.5
55°	884.2	943.0	1094.0	1199.9	1233.2
57.5°	805.8	870.5	1011.7	1113.6	1146.9
60°	723.5	790.1	925.4	1027.3	1052.8
62.5°	643.1	719.5	841.1	935.2	966.6
65°	572.5	629.3	750.9	850.9	888.1
67.5°	486.2	549.0	660.7	764.6	809.7
70°	409.8	470.5	576.4	686.2	731.3
72.5°	337.2	390.2	494.1	609.7	660.7
75°	260.8	317.6	417.6	533.3	580.3
77.5°	196.1	249.0	339.2	454.9	488.2
80°	133.3	184.3	266.6	347.0	358.8
82.5°	84.3	127.4	182.3	205.9	205.9
85°	45.1	76.5	98.0	111.8	119.6
87.5°	17.6	25.5	37.3	37.3	39.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)