

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: P220214

Luminaire Tested: **R3-WG-4L35-LD5-UNV-24**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220214
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35862)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R3-WG-4L35-LD5-UNV-24
Description: CLASS R3 2X4 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & RECTANGULAR PERF INLAY
Light Source: (168) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5672.0 lumens
Efficiency: N/A
Efficacy: 94.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.4 / 1.46
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

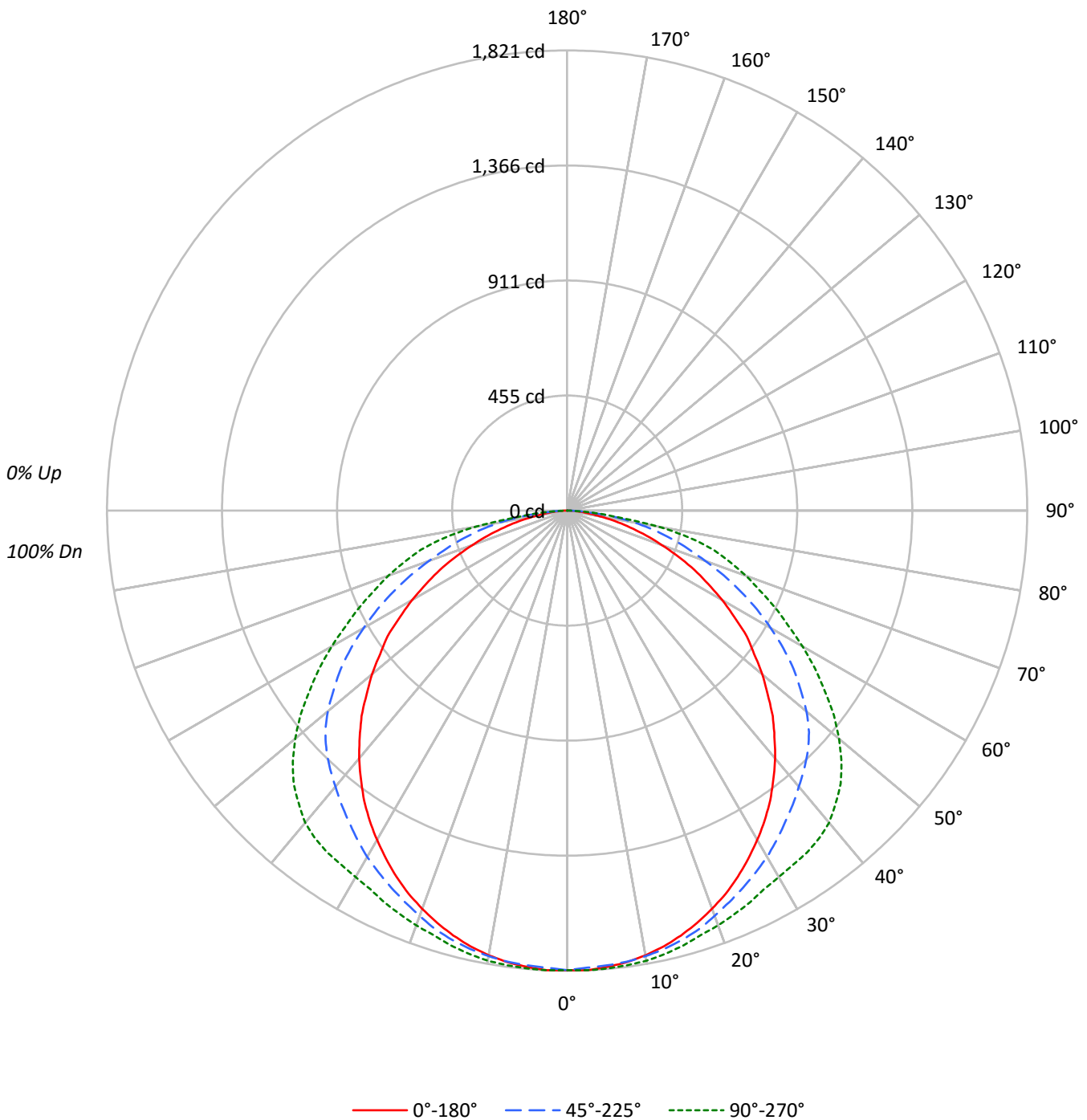
Input Watts (W): 59.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	95	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	61	71	65	60	68	63	59	57
4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	61	55	51	48
5	75	61	52	45	73	60	52	45	58	51	45	56	49	44	54	48	44	41
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2447	2447	2447
5°	2448	2440	2456
10°	2441	2447	2471
15°	2425	2450	2480
20°	2401	2444	2501
25°	2373	2445	2540
30°	2338	2459	2602
35°	2301	2471	2715
40°	2249	2506	2833
45°	2189	2562	2912
50°	2111	2588	2940
55°	2037	2567	2919
60°	1906	2504	2897
65°	1771	2414	2892
70°	1574	2282	2960
75°	1342	2205	3120
80°	1039	2093	2884
85°	741	1389	1729



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.5	3.0
10°-20°	497.0	8.8
20°-30°	762.4	13.4
30°-40°	949.6	16.7
40°-50°	1032.2	18.2
50°-60°	956.8	16.9
60°-70°	737.7	13.0
70°-80°	450.2	7.9
80°-90°	113.6	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°	1431.9	25.2
0°-40°	2381.5	42.0
0°-60°	4370.5	77.1
0°-90°	5672.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5672.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1819	1819	1819	1819	1819	
5°	1813	1813	1807	1817	1819	172
15°	1741	1749	1759	1777	1781	491
25°	1599	1617	1647	1695	1711	736
35°	1401	1425	1505	1611	1653	875
45°	1150	1192	1346	1483	1531	885
55°	868	926	1094	1212	1244	770
65°	556	626	758	862	908	548
75°	258	320	424	544	600	276
85°	48	78	90	104	112	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1818.7	1818.7	1818.7	1818.7	1818.7
2.5°	1820.7	1816.7	1810.7	1818.7	1820.7
5°	1812.7	1812.7	1806.7	1816.7	1818.7
7.5°	1802.7	1800.7	1800.7	1810.7	1814.7
10°	1786.7	1786.7	1790.7	1804.7	1808.7
12.5°	1766.7	1768.7	1776.7	1792.7	1796.7
15°	1740.7	1748.7	1758.7	1776.7	1780.7
17.5°	1710.7	1718.7	1736.7	1754.7	1760.7
20°	1676.7	1688.7	1706.7	1736.7	1746.7
22.5°	1640.7	1654.7	1676.7	1714.7	1728.7
25°	1598.6	1616.7	1646.7	1694.7	1710.7
27.5°	1552.6	1572.6	1614.7	1668.7	1688.7
30°	1504.6	1524.6	1582.6	1646.7	1674.7
32.5°	1454.6	1474.6	1544.6	1626.7	1662.7
35°	1400.6	1424.6	1504.6	1610.6	1652.7
37.5°	1340.5	1366.6	1466.6	1592.6	1636.7
40°	1280.5	1310.5	1426.6	1566.6	1612.7
42.5°	1214.5	1256.5	1388.6	1528.6	1572.6
45°	1150.5	1192.5	1346.5	1482.6	1530.6
47.5°	1076.4	1132.5	1298.5	1426.6	1472.6
50°	1008.4	1066.4	1236.5	1364.6	1404.6
52.5°	932.4	998.4	1164.5	1292.5	1330.5
55°	868.4	926.4	1094.4	1212.5	1244.5
57.5°	784.3	858.3	1014.4	1128.5	1162.5
60°	708.3	778.3	930.4	1042.4	1076.4
62.5°	628.3	710.3	846.3	952.4	986.4
65°	556.2	626.3	758.3	862.3	908.4
67.5°	476.2	546.2	670.3	778.3	824.3
70°	400.2	470.2	580.2	698.3	752.3
72.5°	328.1	392.2	500.2	618.2	674.3
75°	258.1	320.1	424.2	544.2	600.2
77.5°	194.1	252.1	348.1	460.2	496.2
80°	134.1	188.1	270.1	348.1	372.2
82.5°	86.0	132.1	182.1	210.1	198.1
85°	48.0	78.0	90.0	104.0	112.0
87.5°	22.0	26.0	32.0	36.0	36.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)