

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: P220242

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220242
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-4L35-LD5-UNV-24
Description: CLASS R3 2X4 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & NANO-PRISM INLAY
Light Source: (168) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5873.4 lumens
Efficiency: N/A
Efficacy: 98.2 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

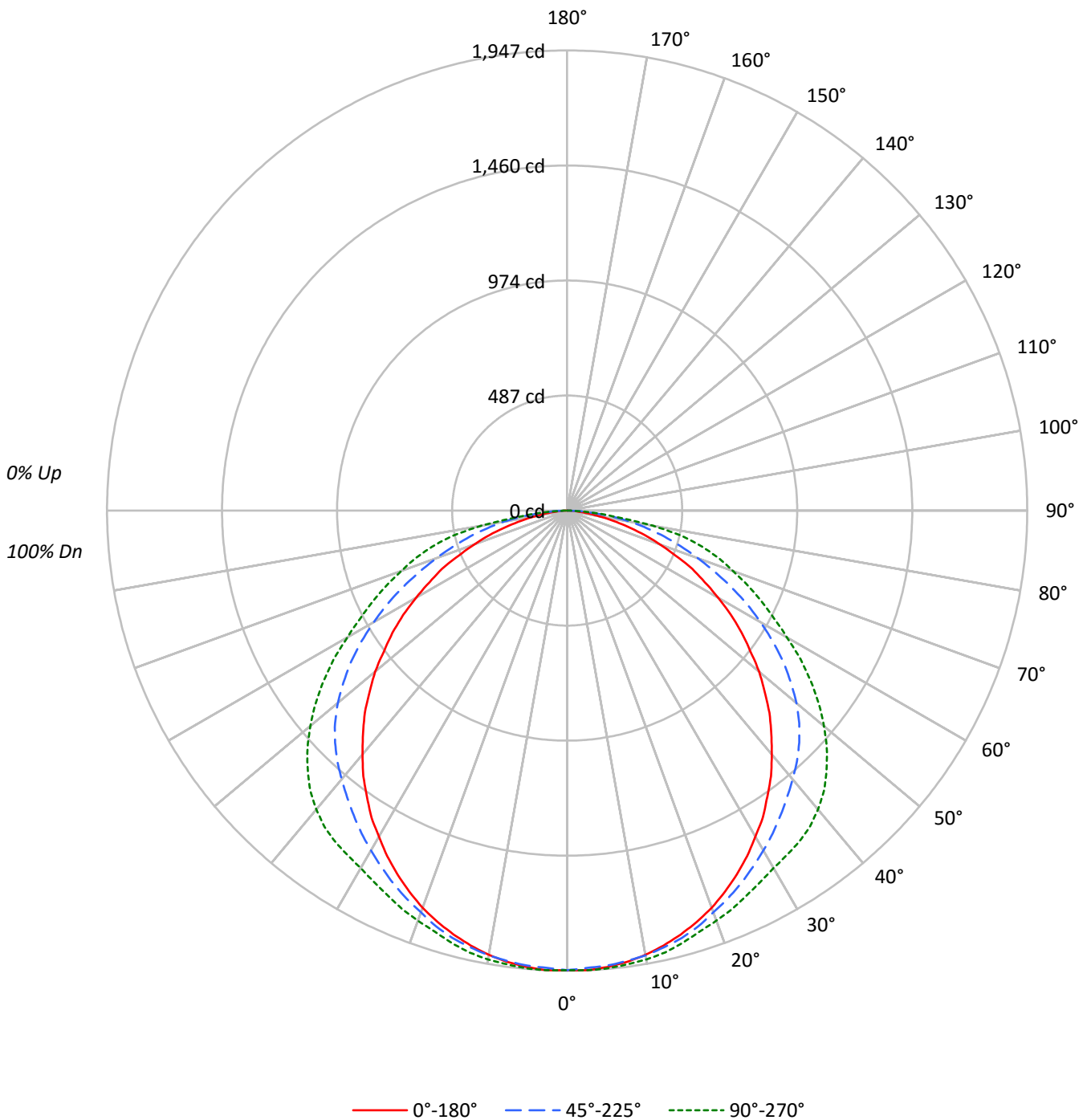
Input Watts (W): 59.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2617	2617	2617
5°	2619	2610	2627
10°	2608	2611	2635
15°	2586	2609	2637
20°	2561	2590	2644
25°	2522	2584	2667
30°	2474	2580	2714
35°	2425	2586	2810
40°	2365	2608	2899
45°	2303	2642	2954
50°	2220	2651	2969
55°	2117	2619	2952
60°	1987	2541	2891
65°	1860	2440	2886
70°	1645	2314	2936
75°	1383	2216	3079
80°	1055	2108	2837
85°	710	1544	1883



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.3	3.1
10°-20°	529.0	9.0
20°-30°	805.5	13.7
30°-40°	992.5	16.9
40°-50°	1065.5	18.1
50°-60°	978.2	16.7
60°-70°	748.2	12.7
70°-80°	453.6	7.7
80°-90°	116.5	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°	1518.8	25.9
0°-40°	2511.3	42.8
0°-60°	4555.0	77.6
0°-90°	5873.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5873.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1945	1945	1945	1945	1945	
5°	1939	1937	1933	1943	1945	184
15°	1857	1863	1873	1891	1893	524
25°	1699	1715	1741	1785	1797	782
35°	1477	1501	1575	1671	1711	924
45°	1210	1248	1389	1515	1553	931
55°	902	962	1116	1224	1258	805
65°	584	642	766	868	906	572
75°	266	324	426	544	592	287
85°	46	78	100	114	122	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1944.8	1944.8	1944.8	1944.8	1944.8
2.5°	1946.8	1944.8	1936.8	1944.8	1946.8
5°	1938.8	1936.8	1932.8	1942.8	1944.8
7.5°	1926.8	1926.8	1922.8	1936.8	1936.8
10°	1908.8	1908.8	1910.8	1924.8	1928.8
12.5°	1884.8	1888.8	1892.8	1912.8	1914.8
15°	1856.7	1862.8	1872.8	1890.8	1892.8
17.5°	1824.7	1832.7	1844.7	1862.8	1866.8
20°	1788.7	1796.7	1808.7	1838.7	1846.7
22.5°	1744.7	1760.7	1776.7	1812.7	1824.7
25°	1698.7	1714.7	1740.7	1784.7	1796.7
27.5°	1648.7	1664.7	1700.7	1752.7	1770.7
30°	1592.6	1612.6	1660.7	1720.7	1746.7
32.5°	1540.6	1558.6	1618.7	1694.7	1728.7
35°	1476.6	1500.6	1574.6	1670.7	1710.7
37.5°	1416.6	1440.6	1528.6	1646.7	1686.7
40°	1346.5	1378.6	1484.6	1612.6	1650.7
42.5°	1278.5	1314.5	1438.6	1568.6	1608.6
45°	1210.5	1248.5	1388.6	1514.6	1552.6
47.5°	1132.5	1178.5	1332.5	1456.6	1490.6
50°	1060.4	1110.4	1266.5	1386.6	1418.6
52.5°	976.4	1038.4	1192.5	1312.5	1342.5
55°	902.4	962.4	1116.4	1224.5	1258.5
57.5°	822.3	888.4	1032.4	1136.5	1170.5
60°	738.3	806.3	944.4	1048.4	1074.4
62.5°	656.3	734.3	858.3	954.4	986.4
65°	584.2	642.3	766.3	868.3	906.4
67.5°	496.2	560.2	674.3	780.3	826.3
70°	418.2	480.2	588.2	700.3	746.3
72.5°	344.1	398.2	504.2	622.3	674.3
75°	266.1	324.1	426.2	544.2	592.2
77.5°	200.1	254.1	346.1	464.2	498.2
80°	136.1	188.1	272.1	354.1	366.1
82.5°	86.0	130.1	186.1	210.1	210.1
85°	46.0	78.0	100.0	114.0	122.0
87.5°	18.0	26.0	38.0	38.0	40.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)