

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: P220224

Luminaire Tested: **R3-WD-5L30-LD5-UNV-24**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220224
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35863)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R3-WD-5L30-LD5-UNV-24
Description: CLASS R3 2X4 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & ROUND PERF INLAY
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6271.6 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.38 / 1.44
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

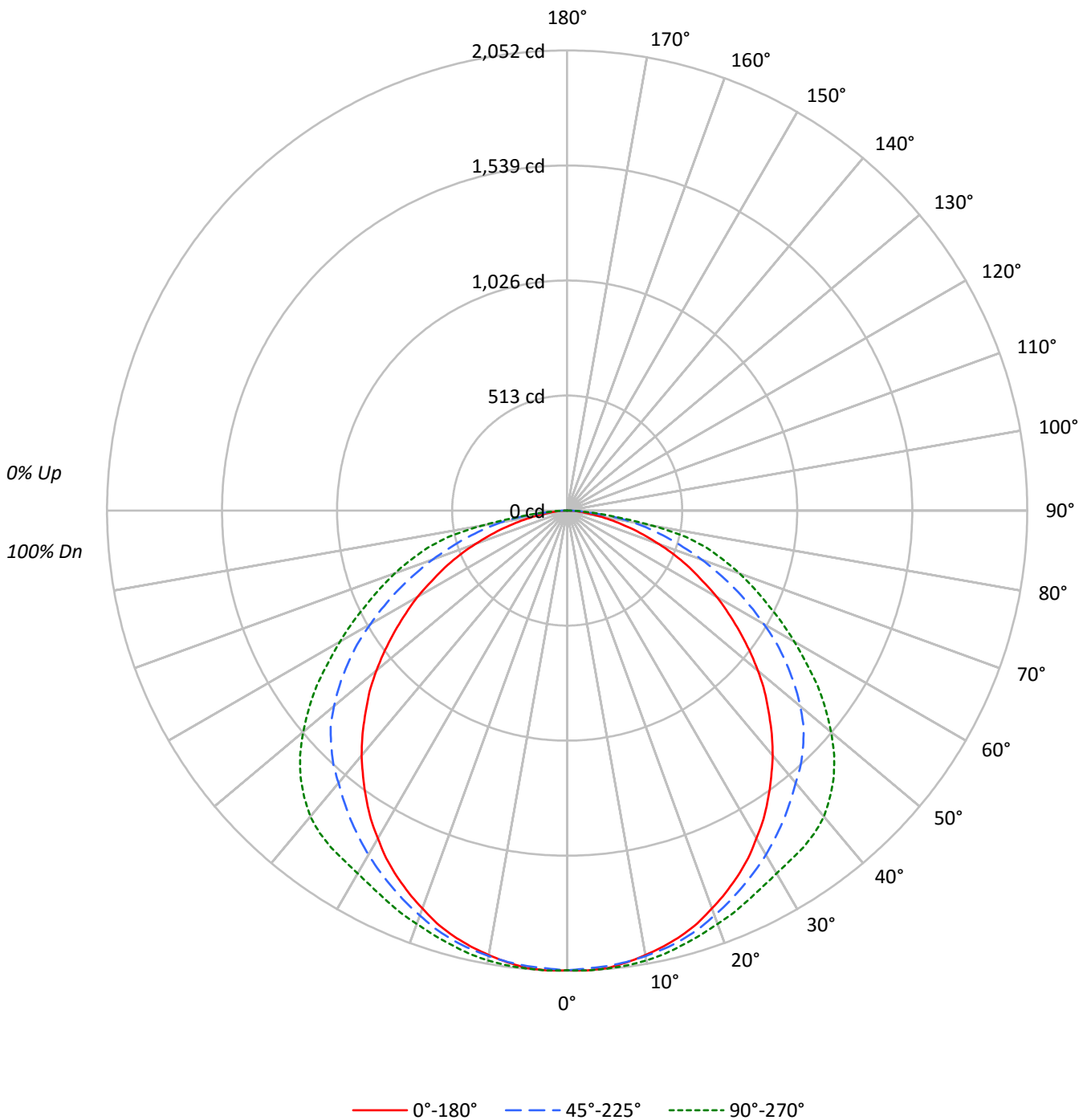
Input Watts (W): 58.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	63	87	77	69	63	74	67	62	71	65	61	69	64	60	57
4	82	69	60	53	79	68	60	53	65	58	52	63	57	52	61	55	51	49
5	75	62	53	46	73	61	52	46	58	51	45	56	50	44	55	49	44	42
6	69	55	46	40	67	55	46	40	53	45	39	51	44	39	49	43	39	36
7	64	50	41	35	62	49	41	35	48	40	35	46	39	34	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	28
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°	2759	2759	2759
5°	2766	2754	2769
10°	2749	2756	2783
15°	2735	2760	2791
20°	2703	2751	2808
25°	2671	2747	2843
30°	2623	2754	2902
35°	2568	2766	3014
40°	2505	2786	3129
45°	2418	2832	3200
50°	2325	2841	3217
55°	2199	2803	3199
60°	2074	2726	3150
65°	1917	2631	3133
70°	1704	2508	3216
75°	1444	2379	3349
80°	1136	2306	2995
85°	823	1544	1715



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.5	3.1
10°-20°	559.9	8.9
20°-30°	856.3	13.7
30°-40°	1058.9	16.9
40°-50°	1140.3	18.2
50°-60°	1046.8	16.7
60°-70°	803.6	12.8
70°-80°	489.1	7.8
80°-90°	122.1	1.9
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°	1610.8	25.7
0°-40°	2669.7	42.6
0°-60°	4856.8	77.4
0°-90°	6271.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6271.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2050	2050	2050	2050	2050	
5°	2048	2044	2039	2048	2050	194
15°	1964	1968	1981	2001	2004	553
25°	1799	1819	1850	1901	1915	828
35°	1564	1593	1684	1790	1835	978
45°	1270	1324	1488	1633	1682	981
55°	937	1013	1195	1324	1364	839
65°	602	682	826	944	984	595
75°	278	349	458	591	644	298
85°	53	84	100	104	111	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2050.2	2050.2	2050.2	2050.2	2050.2
2.5°	2052.4	2050.2	2043.5	2050.2	2052.4
5°	2048.0	2043.5	2039.1	2048.0	2050.2
7.5°	2032.4	2032.4	2030.2	2043.5	2045.8
10°	2012.4	2016.9	2016.9	2034.6	2036.9
12.5°	1990.2	1994.7	2001.3	2021.3	2023.5
15°	1963.6	1968.0	1981.3	2001.3	2003.6
17.5°	1930.3	1939.1	1954.7	1976.9	1983.6
20°	1888.0	1903.6	1921.4	1954.7	1961.3
22.5°	1845.8	1863.6	1888.0	1925.8	1941.4
25°	1799.2	1819.2	1850.3	1901.4	1914.7
27.5°	1748.1	1768.1	1812.5	1870.3	1890.3
30°	1688.1	1710.3	1772.5	1839.2	1868.1
32.5°	1630.4	1652.6	1728.1	1812.5	1850.3
35°	1563.7	1592.6	1683.7	1790.3	1834.7
37.5°	1494.9	1526.0	1634.8	1768.1	1812.5
40°	1426.0	1461.6	1586.0	1737.0	1781.4
42.5°	1350.5	1392.7	1541.5	1688.1	1734.8
45°	1270.5	1323.9	1488.2	1632.6	1681.5
47.5°	1195.0	1250.6	1430.5	1572.6	1614.8
50°	1110.6	1175.0	1357.2	1497.1	1537.1
52.5°	1024.0	1099.5	1279.4	1419.4	1452.7
55°	937.4	1012.9	1195.0	1323.9	1363.8
57.5°	853.0	939.6	1110.6	1232.8	1263.9
60°	770.8	853.0	1012.9	1132.8	1170.6
62.5°	681.9	770.8	919.6	1039.5	1077.3
65°	602.0	681.9	826.3	944.0	984.0
67.5°	519.8	595.3	728.6	848.5	899.6
70°	433.1	508.7	637.5	764.1	817.4
72.5°	355.4	424.3	544.2	679.7	730.8
75°	277.7	348.7	457.6	590.8	644.2
77.5°	208.8	273.2	375.4	502.0	544.2
80°	146.6	206.6	297.6	375.4	386.5
82.5°	95.5	144.4	195.5	217.7	219.9
85°	53.3	84.4	100.0	104.4	111.1
87.5°	22.2	28.9	37.8	40.0	37.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)