

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: P220243

Luminaire Tested: **R3-WN-5L35-LD5-UNV-24**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220243
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-5L35-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: 6654.3 lumens
Efficiency: N/A
Efficacy: 113.6 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

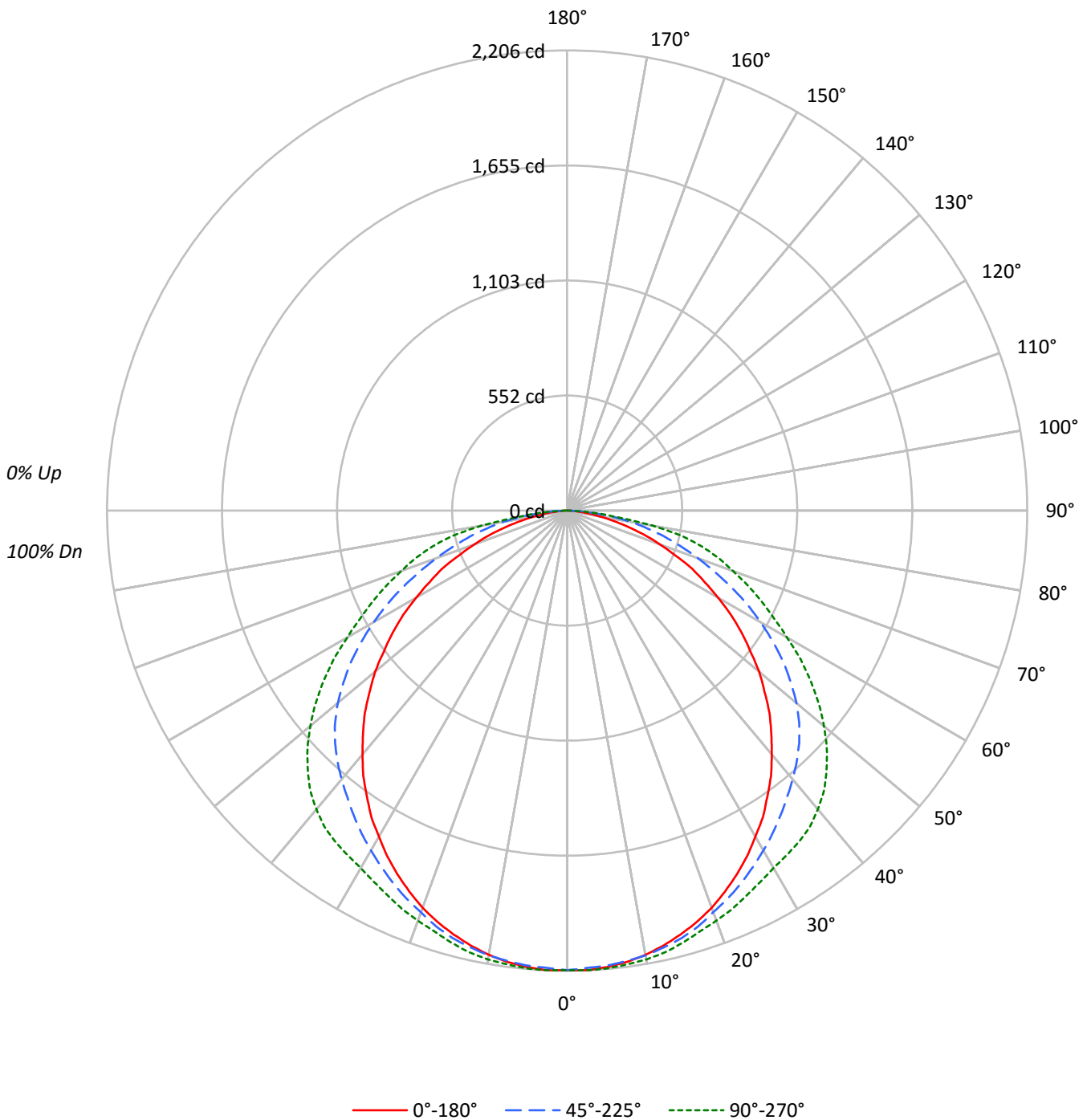
Input Watts (W): 58.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2965	2965	2965
5°	2967	2957	2976
10°	2955	2958	2986
15°	2930	2955	2987
20°	2902	2934	2996
25°	2857	2928	3022
30°	2803	2923	3074
35°	2748	2930	3183
40°	2680	2954	3285
45°	2610	2993	3347
50°	2515	3004	3364
55°	2398	2967	3345
60°	2251	2879	3276
65°	2107	2764	3269
70°	1864	2622	3326
75°	1567	2510	3488
80°	1194	2389	3214
85°	804	1749	2135



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.8	3.1
10°-20°	599.4	9.0
20°-30°	912.5	13.7
30°-40°	1124.5	16.9
40°-50°	1207.2	18.1
50°-60°	1108.2	16.7
60°-70°	847.7	12.7
70°-80°	513.9	7.7
80°-90°	132.0	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°	1720.7	25.9
0°-40°	2845.2	42.8
0°-60°	5160.6	77.6
0°-90°	6654.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6654.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2203	2203	2203	2203	2203	
5°	2196	2194	2190	2201	2203	209
15°	2104	2110	2122	2142	2144	593
25°	1924	1943	1972	2022	2036	886
35°	1673	1700	1784	1893	1938	1047
45°	1371	1414	1573	1716	1759	1055
55°	1022	1090	1265	1387	1426	912
65°	662	728	868	984	1027	649
75°	302	367	483	617	671	325
85°	52	88	113	129	138	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2203.3	2203.3	2203.3	2203.3	2203.3
2.5°	2205.6	2203.3	2194.3	2203.3	2205.6
5°	2196.5	2194.3	2189.7	2201.1	2203.3
7.5°	2182.9	2182.9	2178.4	2194.3	2194.3
10°	2162.5	2162.5	2164.8	2180.7	2185.2
12.5°	2135.3	2139.9	2144.4	2167.1	2169.3
15°	2103.6	2110.4	2121.7	2142.1	2144.4
17.5°	2067.3	2076.4	2090.0	2110.4	2114.9
20°	2026.5	2035.6	2049.2	2083.2	2092.3
22.5°	1976.7	1994.8	2012.9	2053.7	2067.3
25°	1924.5	1942.7	1972.1	2022.0	2035.6
27.5°	1867.9	1886.0	1926.8	1985.7	2006.1
30°	1804.4	1827.1	1881.5	1949.5	1978.9
32.5°	1745.4	1765.9	1833.9	1920.0	1958.5
35°	1672.9	1700.1	1784.0	1892.8	1938.1
37.5°	1604.9	1632.1	1731.8	1865.6	1910.9
40°	1525.6	1561.8	1682.0	1827.1	1870.1
42.5°	1448.5	1489.3	1629.8	1777.2	1822.5
45°	1371.4	1414.5	1573.2	1716.0	1759.0
47.5°	1283.0	1335.2	1509.7	1650.2	1688.8
50°	1201.4	1258.1	1434.9	1570.9	1607.2
52.5°	1106.2	1176.5	1351.0	1487.0	1521.0
55°	1022.3	1090.3	1264.9	1387.3	1425.8
57.5°	931.7	1006.5	1169.7	1287.6	1326.1
60°	836.5	913.5	1069.9	1187.8	1217.3
62.5°	743.5	831.9	972.5	1081.3	1117.5
65°	661.9	727.6	868.2	983.8	1026.9
67.5°	562.2	634.7	763.9	884.1	936.2
70°	473.8	544.0	666.4	793.4	845.5
72.5°	389.9	451.1	571.2	705.0	763.9
75°	301.5	367.2	482.8	616.6	671.0
77.5°	226.7	287.9	392.2	525.9	564.4
80°	154.1	213.1	308.3	401.2	414.8
82.5°	97.5	147.3	210.8	238.0	238.0
85°	52.1	88.4	113.3	129.2	138.3
87.5°	20.4	29.5	43.1	43.1	45.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)