

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: P220196

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220196  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35861)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: R3-WL-5L30-LD5-UNV-24  
Description: CLASS R3 2X4 RECESSED LED LUMIANIRE  
WITH A FROSTED PRISMATIC ROUND LENS  
Light Source: (168) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6710.4 lumens  
Efficiency: N/A  
Efficacy: 114.5 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.33 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

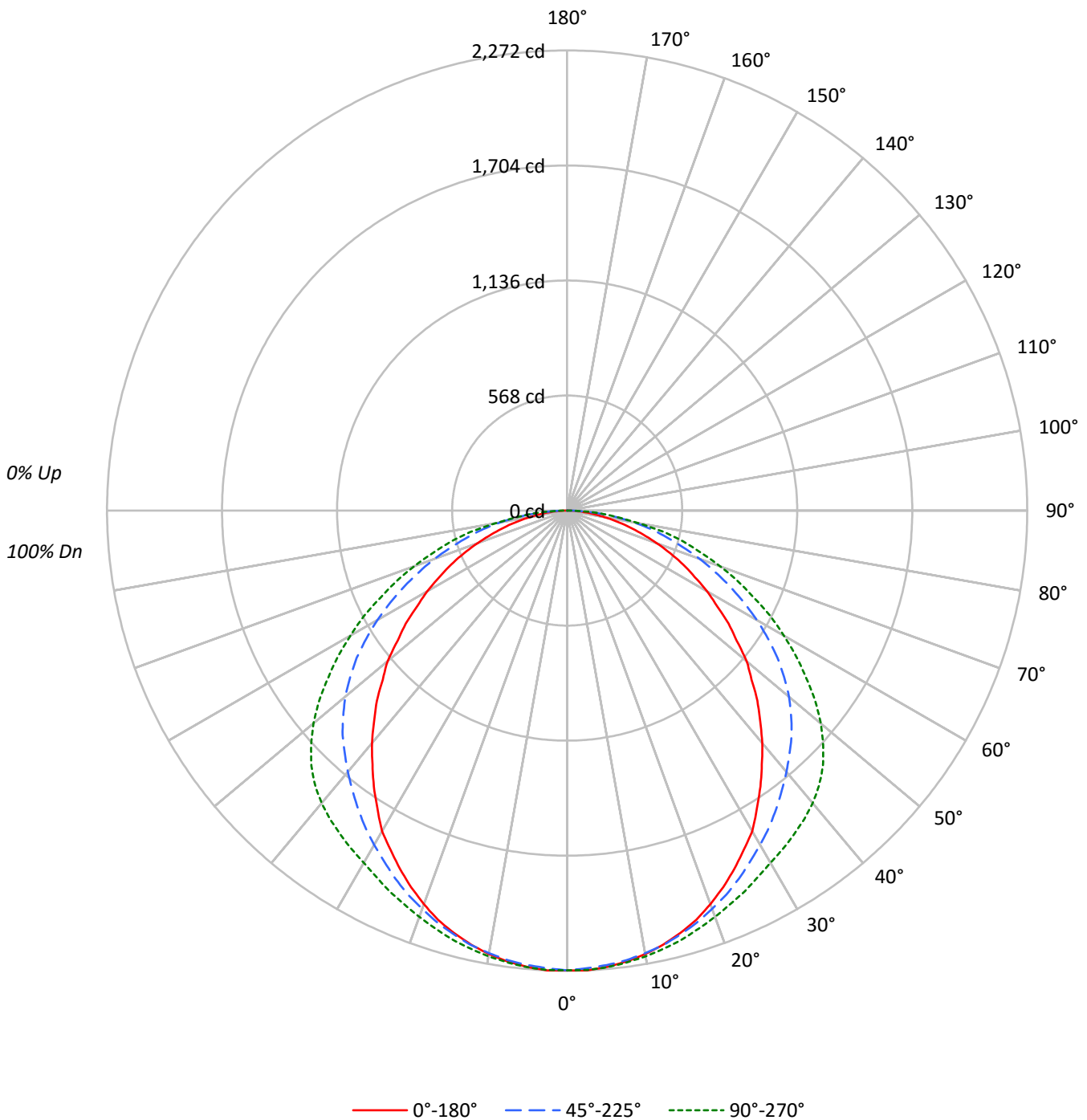
Input Watts (W): 58.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	93	97	93	90	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	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	50	43	39	37
7	64	50	41	35	62	50	41	35	48	40	35	47	40	35	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	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	25	37	30	25	36	30	25	35	29	25	23

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3054	3054	3054
5°	3054	3042	3057
10°	3038	3032	3053
15°	3007	3017	3054
20°	2961	2996	3056
25°	2899	2978	3080
30°	2840	2961	3120
35°	2733	2955	3207
40°	2633	2957	3312
45°	2528	2984	3398
50°	2422	2994	3422
55°	2282	2975	3382
60°	2146	2911	3323
65°	2016	2822	3239
70°	1852	2735	3163
75°	1674	2645	3095
80°	1463	2599	2771
85°	1269	2331	2572



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	214.6	3.2
10°-20°	612.9	9.1
20°-30°	927.1	13.8
30°-40°	1130.7	16.8
40°-50°	1203.3	17.9
50°-60°	1103.1	16.4
60°-70°	847.9	12.6
70°-80°	513.7	7.7
80°-90°	157.1	2.3
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°	1754.6	26.1
0°-40°	2885.3	43.0
0°-60°	5191.7	77.4
0°-90°	6710.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6710.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2270	2270	2270	2270	2270	
5°	2261	2259	2252	2263	2263	215
15°	2159	2161	2166	2186	2192	609
25°	1952	1968	2006	2055	2075	899
35°	1664	1704	1799	1910	1952	1040
45°	1328	1390	1568	1735	1786	1023
55°	973	1057	1268	1406	1442	868
65°	633	713	886	993	1017	626
75°	322	393	509	584	595	343
85°	82	122	151	169	167	94
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2270.1	2270.1	2270.1	2270.1	2270.1
2.5°	2272.3	2267.9	2261.2	2270.1	2270.1
5°	2261.2	2259.0	2252.3	2263.4	2263.4
7.5°	2245.7	2243.4	2239.0	2252.3	2250.1
10°	2223.5	2221.2	2219.0	2234.6	2234.6
12.5°	2194.6	2194.6	2196.8	2212.3	2214.6
15°	2159.0	2161.3	2165.7	2185.7	2192.4
17.5°	2119.1	2121.3	2132.4	2159.0	2163.5
20°	2068.0	2074.6	2092.4	2127.9	2134.6
22.5°	2012.4	2023.5	2052.4	2092.4	2103.5
25°	1952.5	1968.0	2005.8	2054.6	2074.6
27.5°	1888.0	1905.8	1954.7	2016.9	2039.1
30°	1828.1	1845.8	1905.8	1983.6	2008.0
32.5°	1743.7	1774.8	1854.7	1945.8	1981.3
35°	1663.7	1703.7	1799.2	1910.3	1952.5
37.5°	1579.3	1630.4	1741.4	1876.9	1921.4
40°	1499.3	1552.6	1683.7	1834.7	1885.8
42.5°	1410.5	1472.7	1625.9	1788.1	1841.4
45°	1328.3	1390.5	1568.2	1734.8	1785.9
47.5°	1235.0	1308.3	1499.3	1672.6	1714.8
50°	1157.3	1226.1	1430.5	1590.4	1634.8
52.5°	1055.1	1146.2	1350.5	1501.6	1543.8
55°	972.9	1057.3	1268.3	1406.0	1441.6
57.5°	877.4	979.6	1175.0	1310.5	1341.6
60°	797.4	886.3	1081.7	1206.1	1235.0
62.5°	710.8	806.3	984.0	1099.5	1132.8
65°	633.1	713.0	886.3	992.9	1017.3
67.5°	550.9	633.1	790.8	888.5	912.9
70°	470.9	557.5	695.2	784.1	804.1
72.5°	393.2	468.7	597.5	684.1	695.2
75°	322.1	393.2	508.7	584.2	595.3
77.5°	255.4	319.9	424.3	484.2	488.7
80°	188.8	251.0	335.4	366.5	357.6
82.5°	133.3	182.1	244.3	251.0	246.6
85°	82.2	122.2	151.0	168.8	166.6
87.5°	35.5	55.5	77.7	73.3	77.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)