

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: P220076

Luminaire Tested: **R3-WG-4L30-LD5-UNV-22**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220076  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35854)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: R3-WG-4L30-LD5-UNV-22  
Description: CLASS R3 2X2 RECESSED LED LUMIANIRE  
WITH A CLEAR SMOOTH ROUND LENS & RECTANGULAR PERF INLAY  
Light Source: (84) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3199.6 lumens  
Efficiency: N/A  
Efficacy: 104.9 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.33 / 1.4  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

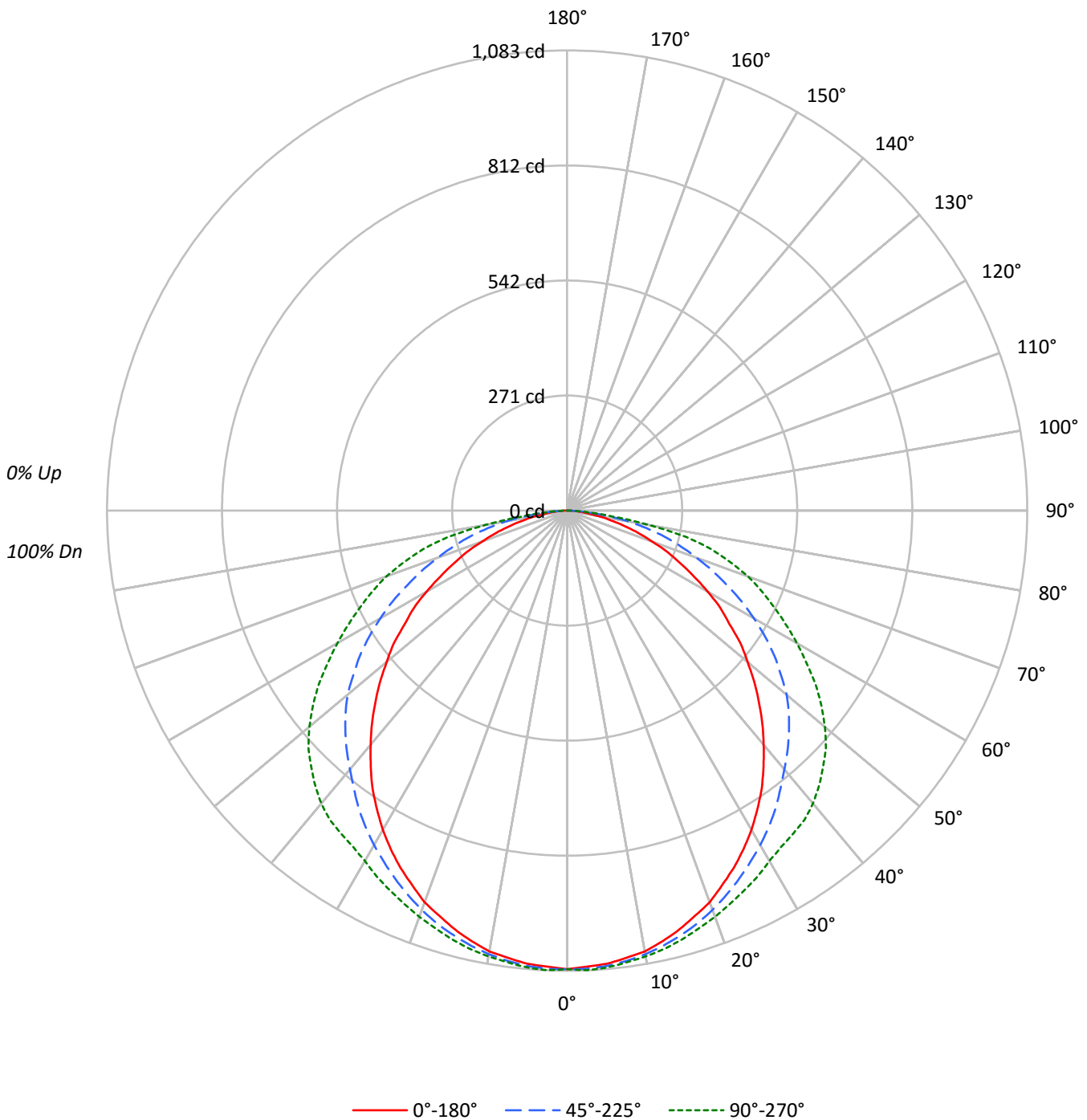
Input Watts (W): 30.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	41	34	28	40	33	28		39	33	28		38	32	28	26
10	52	39	31	25	51	38	31	25	37	30	25		36	30	25		35	29	25	23

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

	0°	45°	90°
0°	2904	2904	2904
5°	2892	2906	2915
10°	2878	2897	2911
15°	2844	2882	2911
20°	2810	2864	2913
25°	2755	2841	2928
30°	2696	2824	2958
35°	2624	2810	3048
40°	2527	2793	3162
45°	2430	2810	3242
50°	2321	2825	3315
55°	2189	2794	3351
60°	2056	2733	3363
65°	1874	2641	3419
70°	1679	2546	3562
75°	1449	2469	3650
80°	1147	2267	3040
85°	849	1488	1649



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.1	3.2
10°-20°	291.7	9.1
20°-30°	441.4	13.8
30°-40°	537.7	16.8
40°-50°	572.7	17.9
50°-60°	529.0	16.5
60°-70°	412.4	12.9
70°-80°	252.7	7.9
80°-90°	59.9	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°	835.2	26.1
0°-40°	1372.9	42.9
0°-60°	2474.6	77.3
0°-90°	3199.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3199.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1079	1079	1079	1079	1079	
5°	1071	1072	1076	1078	1079	102
15°	1021	1024	1034	1043	1045	288
25°	928	936	957	978	986	427
35°	799	812	856	904	928	498
45°	639	664	738	823	852	492
55°	466	508	596	682	714	420
65°	294	336	415	498	537	293
75°	139	170	238	315	351	149
85°	28	38	48	57	53	34
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1079.3	1079.3	1079.3	1079.3	1079.3
2.5°	1074.1	1075.8	1079.3	1081.0	1082.7
5°	1070.7	1072.4	1075.8	1077.5	1079.3
7.5°	1062.0	1065.5	1068.9	1072.4	1072.4
10°	1053.4	1055.2	1060.3	1063.8	1065.5
12.5°	1037.9	1041.4	1048.3	1055.2	1056.9
15°	1020.7	1024.2	1034.5	1043.1	1044.8
17.5°	1000.1	1007.0	1019.0	1027.6	1031.1
20°	981.1	986.3	1000.1	1012.1	1017.3
22.5°	953.6	962.2	979.4	994.9	1001.8
25°	927.8	936.4	957.0	977.7	986.3
27.5°	898.5	908.9	932.9	962.2	970.8
30°	867.5	877.9	908.9	941.6	951.9
32.5°	833.1	845.2	883.0	920.9	938.1
35°	798.7	812.5	855.5	903.7	927.8
37.5°	759.1	778.0	824.5	888.2	917.5
40°	719.5	740.2	795.2	872.7	900.2
42.5°	679.9	702.3	767.7	848.6	877.9
45°	638.6	664.4	738.4	822.8	852.0
47.5°	597.3	624.8	707.5	793.5	826.2
50°	554.3	585.2	674.8	759.1	791.8
52.5°	514.7	543.9	633.4	721.2	753.9
55°	466.5	507.8	595.6	681.6	714.3
57.5°	428.6	459.6	552.5	636.9	667.9
60°	382.1	416.6	507.8	590.4	624.8
62.5°	337.4	377.0	463.0	543.9	580.1
65°	294.3	335.7	414.8	497.5	537.0
67.5°	256.5	292.6	370.1	454.4	495.7
70°	213.4	247.9	323.6	409.7	452.7
72.5°	175.6	210.0	280.6	364.9	401.1
75°	139.4	170.4	237.5	315.0	351.1
77.5°	105.0	134.3	191.1	258.2	287.5
80°	74.0	99.8	146.3	185.9	196.2
82.5°	49.9	68.9	93.0	111.9	110.2
85°	27.5	37.9	48.2	56.8	53.4
87.5°	10.3	12.0	17.2	17.2	17.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)