

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: P220075

Luminaire Tested: **R3-WG-3L30-LD5-UNV-22**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220075  
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-3L30-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: 2767.1 lumens  
Efficiency: N/A  
Efficacy: 108.1 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

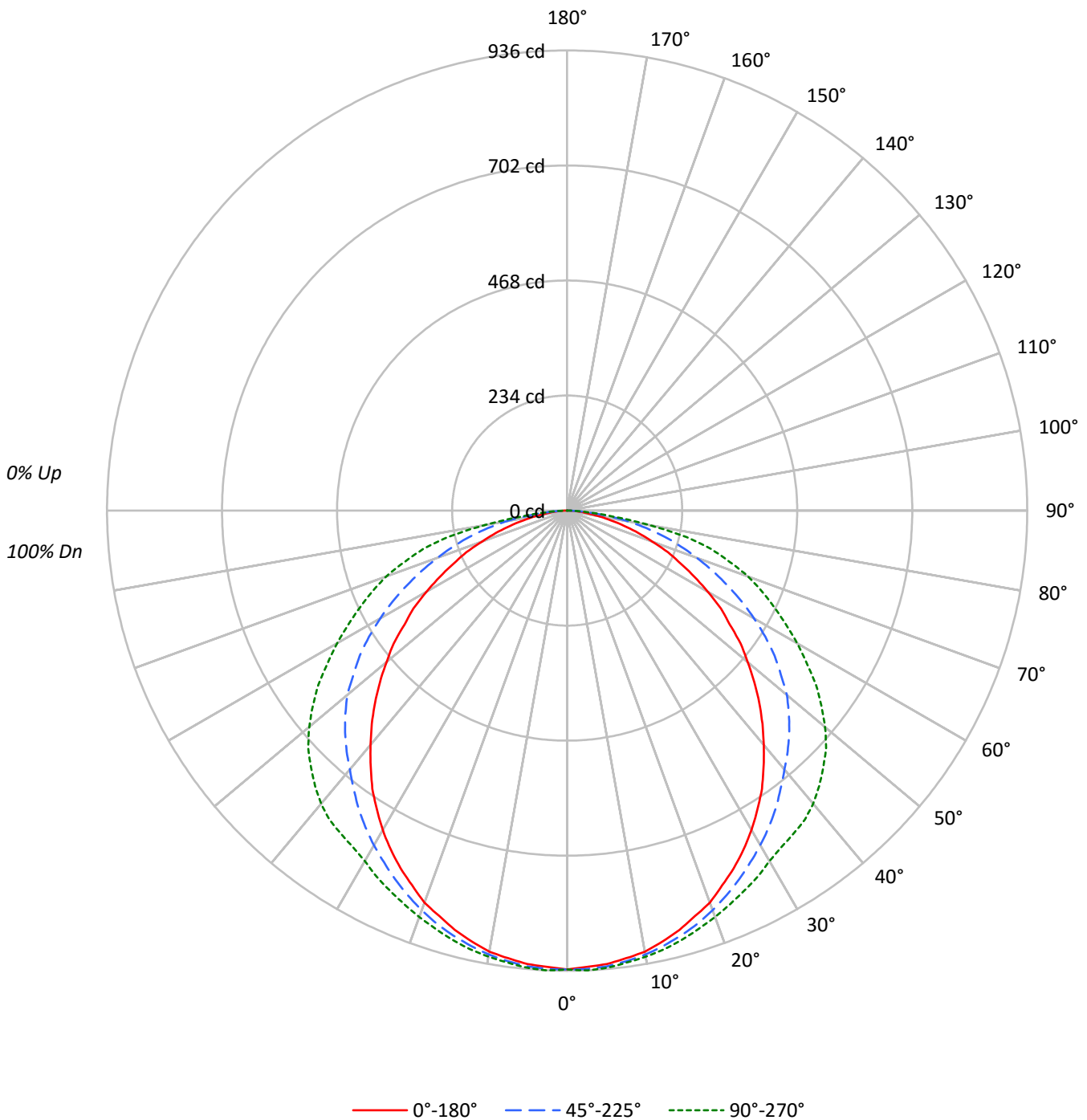
Input Watts (W): 25.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	2512	2512	2512
5°	2501	2513	2521
10°	2489	2506	2518
15°	2459	2493	2517
20°	2430	2477	2519
25°	2382	2458	2533
30°	2331	2442	2558
35°	2269	2430	2636
40°	2186	2416	2735
45°	2102	2430	2804
50°	2007	2443	2867
55°	1893	2417	2898
60°	1779	2363	2908
65°	1621	2285	2958
70°	1452	2202	3080
75°	1254	2136	3158
80°	992	1960	2630
85°	735	1288	1423



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.3	3.2
10°-20°	252.3	9.1
20°-30°	381.7	13.8
30°-40°	465.0	16.8
40°-50°	495.3	17.9
50°-60°	457.5	16.5
60°-70°	356.7	12.9
70°-80°	218.5	7.9
80°-90°	51.8	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°	722.3	26.1
0°-40°	1187.3	42.9
0°-60°	2140.1	77.3
0°-90°	2767.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2767.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	933	933	933	933	933	
5°	926	927	930	932	933	88
15°	883	886	895	902	904	249
25°	802	810	828	846	853	369
35°	691	703	740	782	802	431
45°	552	575	639	712	737	426
55°	403	439	515	590	618	363
65°	255	290	359	430	464	254
75°	121	147	205	272	304	128
85°	24	33	42	49	46	29
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	933.4	933.4	933.4	933.4	933.4
2.5°	928.9	930.4	933.4	934.9	936.3
5°	925.9	927.4	930.4	931.9	933.4
7.5°	918.5	921.5	924.4	927.4	927.4
10°	911.0	912.5	917.0	920.0	921.5
12.5°	897.6	900.6	906.6	912.5	914.0
15°	882.8	885.7	894.7	902.1	903.6
17.5°	864.9	870.8	881.3	888.7	891.7
20°	848.5	853.0	864.9	875.3	879.8
22.5°	824.7	832.1	847.0	860.4	866.4
25°	802.4	809.8	827.7	845.5	853.0
27.5°	777.1	786.0	806.8	832.1	839.6
30°	750.3	759.2	786.0	814.3	823.2
32.5°	720.5	730.9	763.7	796.4	811.3
35°	690.7	702.6	739.8	781.5	802.4
37.5°	656.5	672.9	713.1	768.1	793.4
40°	622.2	640.1	687.7	754.7	778.5
42.5°	588.0	607.4	663.9	733.9	759.2
45°	552.3	574.6	638.6	711.6	736.9
47.5°	516.6	540.4	611.8	686.3	714.5
50°	479.3	506.1	583.5	656.5	684.8
52.5°	445.1	470.4	547.8	623.7	652.0
55°	403.4	439.1	515.1	589.5	617.8
57.5°	370.7	397.5	477.8	550.8	577.6
60°	330.5	360.2	439.1	510.6	540.4
62.5°	291.8	326.0	400.4	470.4	501.7
65°	254.6	290.3	358.8	430.2	464.5
67.5°	221.8	253.1	320.1	393.0	428.7
70°	184.6	214.4	279.9	354.3	391.5
72.5°	151.8	181.6	242.6	315.6	346.8
75°	120.6	147.4	205.4	272.4	303.7
77.5°	90.8	116.1	165.2	223.3	248.6
80°	64.0	86.3	126.5	160.8	169.7
82.5°	43.2	59.5	80.4	96.8	95.3
85°	23.8	32.7	41.7	49.1	46.1
87.5°	8.9	10.4	14.9	14.9	14.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)