

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: P219959

Luminaire Tested: **R3-WG-2L30-LD5-UNV-14**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P219959  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35870)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: R3-WG-2L30-LD5-UNV-14  
Description: CLASS R3 1X4 RECESSED LED LUMIANIRE  
WITH A CLEAR SMOOTH ROUND LENS & RECTANGULAR PERF INLAY  
Light Source: (168) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2709.6 lumens  
Efficiency: N/A  
Efficacy: 113.8 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.25 / 1.34  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

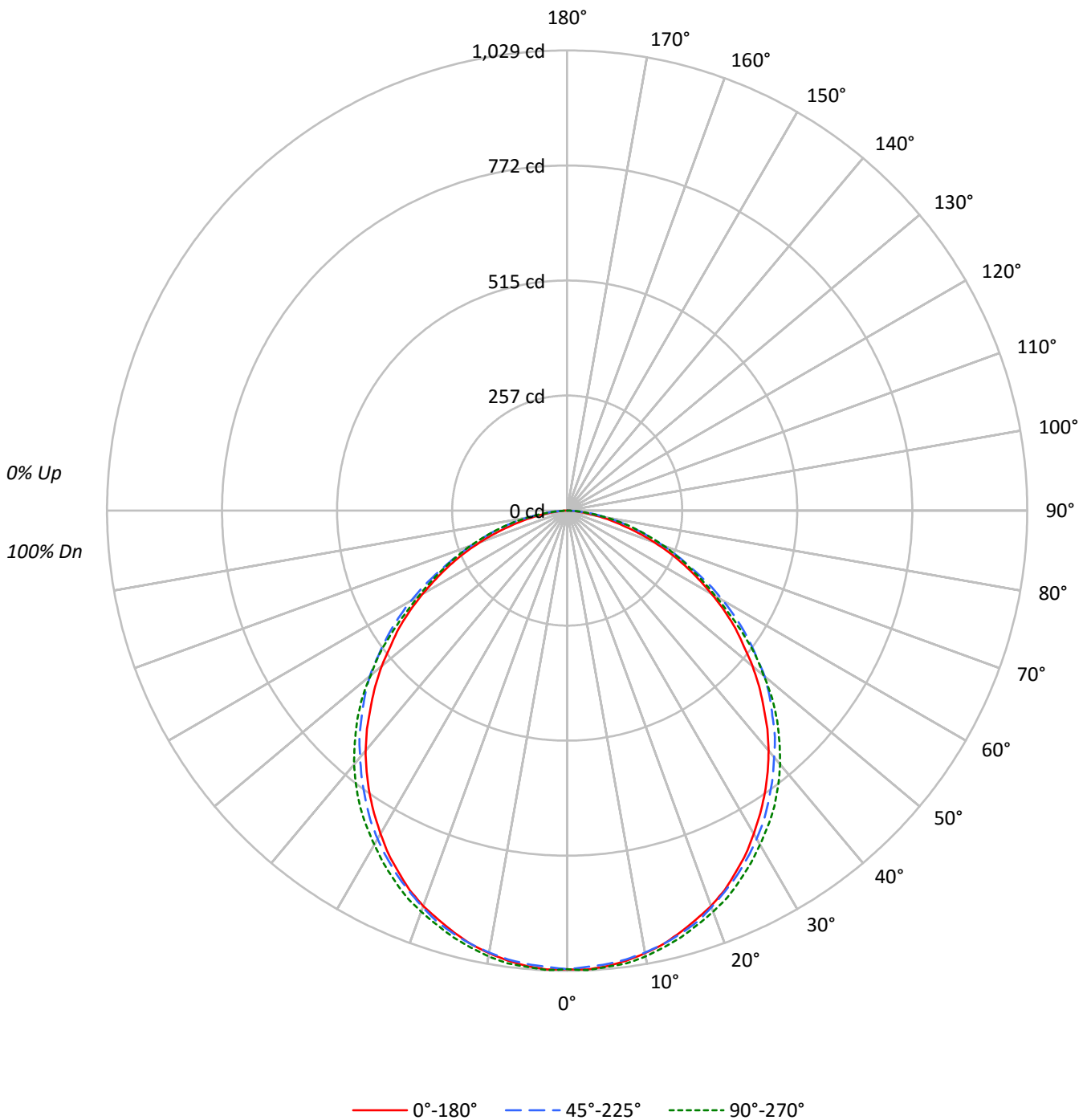
Input Watts (W): 23.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	79	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	57	44	36	30	56	44	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	32	27	26

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

	0°	45°	90°
0°	2760	2760	2760
5°	2763	2750	2766
10°	2746	2742	2766
15°	2721	2729	2750
20°	2695	2704	2733
25°	2649	2671	2711
30°	2593	2634	2680
35°	2532	2585	2653
40°	2462	2530	2603
45°	2363	2471	2527
50°	2265	2413	2401
55°	2156	2302	2253
60°	2010	2169	2066
65°	1850	1973	1925
70°	1633	1784	1807
75°	1340	1618	1633
80°	1057	1378	1378
85°	732	1007	914



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	97.1	3.6
10°-20°	277.0	10.2
20°-30°	415.7	15.3
30°-40°	493.0	18.2
40°-50°	498.3	18.4
50°-60°	428.5	15.8
60°-70°	302.3	11.2
70°-80°	161.2	5.9
80°-90°	36.5	1.3
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°	789.7	29.1
0°-40°	1282.7	47.3
0°-60°	2209.5	81.5
0°-90°	2709.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2709.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1026	1026	1026	1026	1026	
5°	1023	1021	1018	1024	1024	97
15°	977	980	980	987	987	276
25°	892	895	900	913	913	411
35°	771	777	787	803	808	482
45°	621	631	649	661	664	480
55°	460	473	491	489	480	409
65°	290	305	310	307	302	287
75°	129	147	156	162	157	140
85°	24	28	33	30	30	30
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1025.6	1025.6	1025.6	1025.6	1025.6
2.5°	1027.1	1025.6	1021.2	1027.1	1028.6
5°	1022.7	1021.2	1018.2	1024.1	1024.1
7.5°	1015.2	1015.2	1012.3	1019.7	1021.2
10°	1004.9	1004.9	1003.4	1010.8	1012.3
12.5°	993.0	994.5	993.0	1000.4	1000.4
15°	976.7	979.7	979.7	987.1	987.1
17.5°	958.9	961.9	964.8	970.8	970.8
20°	941.1	941.1	944.1	953.0	954.5
22.5°	918.9	920.4	921.9	933.7	936.7
25°	892.2	895.2	899.6	913.0	913.0
27.5°	865.5	870.0	874.4	887.8	889.3
30°	834.4	838.9	847.8	859.6	862.6
32.5°	803.3	807.7	819.6	831.5	835.9
35°	770.7	776.6	787.0	803.3	807.7
37.5°	736.6	741.1	754.4	772.2	775.1
40°	701.0	705.5	720.3	736.6	741.1
42.5°	662.5	668.4	687.7	702.5	702.5
45°	621.0	631.4	649.2	661.0	664.0
47.5°	582.5	589.9	613.6	624.0	622.5
50°	541.0	551.3	576.5	579.5	573.6
52.5°	498.0	511.3	532.1	535.0	530.6
55°	459.5	472.8	490.6	489.1	480.2
57.5°	416.5	431.3	447.6	438.7	429.8
60°	373.5	388.3	403.1	389.8	383.9
62.5°	330.5	346.8	357.2	343.8	342.4
65°	290.5	305.3	309.8	306.8	302.3
67.5°	249.0	265.3	268.3	266.8	265.3
70°	207.5	225.3	226.8	229.7	229.7
72.5°	167.5	185.3	191.2	195.6	192.7
75°	128.9	146.7	155.6	161.5	157.1
77.5°	97.8	111.2	123.0	123.0	123.0
80°	68.2	80.0	88.9	90.4	88.9
82.5°	43.0	51.9	59.3	56.3	56.3
85°	23.7	28.2	32.6	29.6	29.6
87.5°	8.9	10.4	8.9	7.4	5.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)