

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: P35869

Luminaire Tested: **R3-WL-1L30-LD5-UNV-14**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P35869  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: R3-WL-1L30-LD5-UNV-14  
Description: CLASS R3 1X4 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: 2007.6 lumens  
Efficiency: N/A  
Efficacy: 126.3 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.25 / 1.33  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

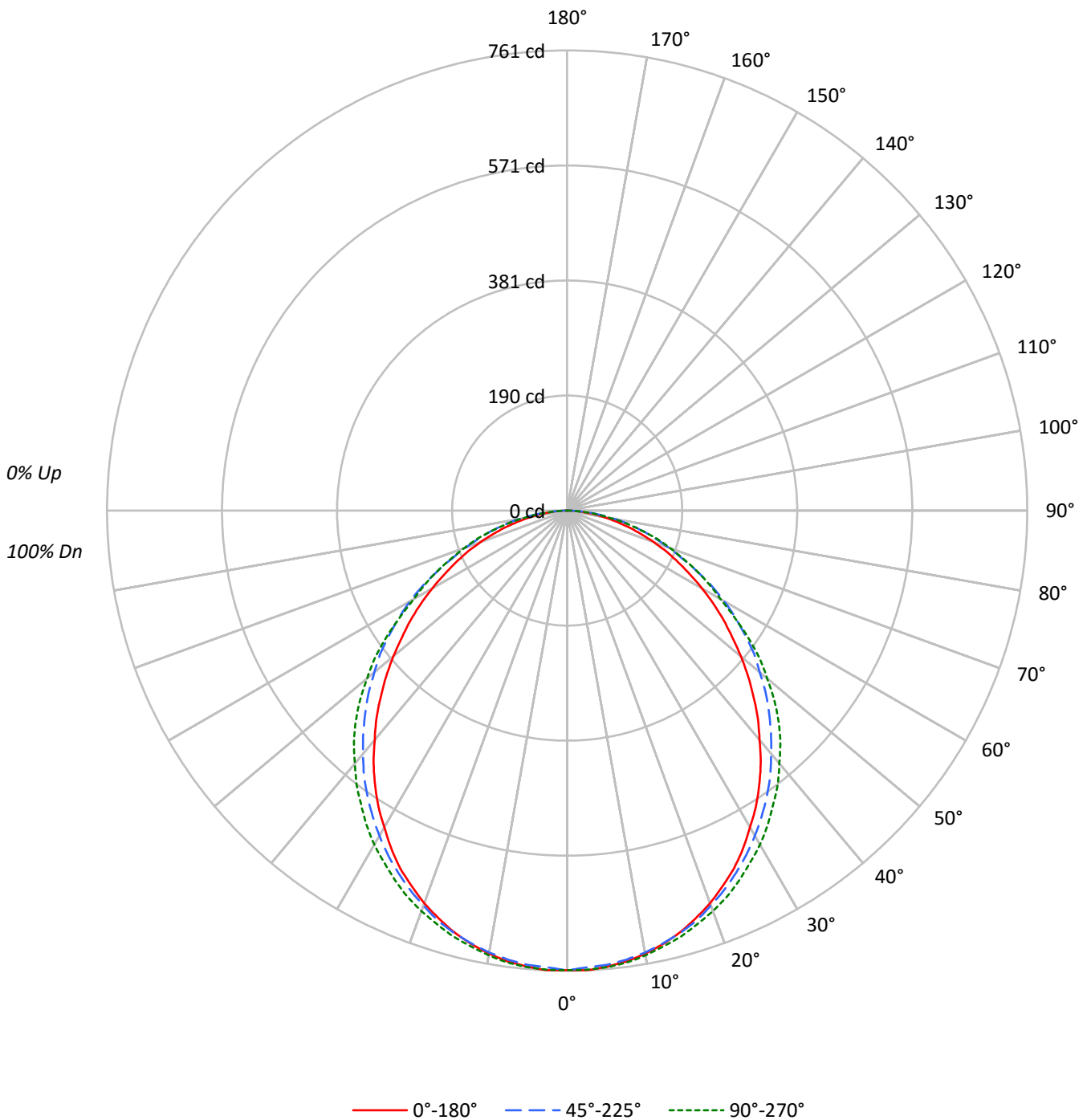
Input Watts (W): 15.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	104	100	96	106	102	98	95	98	95	92		94	91	89		90	88	86	84
2	99	91	84	79	97	89	83	78	86	81	76		82	78	74		79	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64		73	68	63		70	66	62	60
4	83	71	63	56	81	70	62	56	67	60	55		65	59	54		63	58	53	51
5	77	64	55	48	74	63	54	48	61	53	48		59	52	47		57	51	47	44
6	71	58	49	42	69	57	48	42	55	47	42		53	47	41		52	46	41	39
7	66	52	44	38	64	51	43	37	50	43	37		48	42	37		47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33		45	38	33		43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30		41	35	30		40	34	30	28
10	54	41	33	27	52	40	32	27	39	32	27		38	32	27		37	31	27	25

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

	0°	45°	90°
0°	2045	2045	2045
5°	2045	2037	2048
10°	2033	2028	2041
15°	2011	2014	2031
20°	1979	1990	2019
25°	1939	1963	2001
30°	1880	1930	1982
35°	1820	1892	1951
40°	1739	1844	1918
45°	1659	1796	1884
50°	1570	1742	1809
55°	1483	1684	1712
60°	1389	1615	1577
65°	1293	1503	1509
70°	1196	1400	1424
75°	1081	1331	1331
80°	945	1240	1162
85°	803	1019	895



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.8	3.6
10°-20°	204.4	10.2
20°-30°	305.4	15.2
30°-40°	359.8	17.9
40°-50°	361.5	18.0
50°-60°	312.8	15.6
60°-70°	226.2	11.3
70°-80°	130.1	6.5
80°-90°	35.7	1.8
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°	581.6	29.0
0°-40°	941.4	46.9
0°-60°	1615.7	80.5
0°-90°	2007.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2007.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	760	760	760	760	760	
5°	757	757	754	758	758	72
15°	722	723	723	729	729	203
25°	653	655	661	672	674	300
35°	554	561	576	591	594	346
45°	436	449	472	491	495	336
55°	316	331	359	370	365	282
65°	203	217	236	237	237	202
75°	104	115	128	132	128	110
85°	26	31	33	31	29	30
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	760	760	760	760	760
2.5°	761	760	756	760	760
5°	757	757	754	758	758
7.5°	752	751	749	753	754
10°	744	744	742	747	747
12.5°	734	734	733	739	738
15°	722	723	723	729	729
17.5°	707	709	711	718	717
20°	691	693	695	704	705
22.5°	672	675	679	690	691
25°	653	655	661	672	674
27.5°	630	634	642	655	656
30°	605	612	621	635	638
32.5°	581	587	599	614	617
35°	554	561	576	591	594
37.5°	526	533	552	568	572
40°	495	505	525	543	546
42.5°	467	476	499	517	522
45°	436	449	472	491	495
47.5°	406	418	445	463	465
50°	375	390	416	434	432
52.5°	344	360	390	401	401
55°	316	331	359	370	365
57.5°	287	303	330	337	327
60°	258	273	300	299	293
62.5°	229	245	269	267	265
65°	203	217	236	237	237
67.5°	178	192	205	210	207
70°	152	166	178	183	181
72.5°	127	142	152	158	156
75°	104	115	128	132	128
77.5°	81	92	104	106	102
80°	61	70	80	78	75
82.5°	43	50	56	53	51
85°	26	31	33	31	29
87.5°	11	13	13	11	11
90°	0	0	0	0	0

(END OF REPORT)