

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: P220057

Luminaire Tested: **R3-WL-2L30-LD5-UNV-22**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220057  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35853)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: R3-WL-2L30-LD5-UNV-22  
Description: CLASS R3 2X2 RECESSED LED LUMIANIRE  
WITH A FROSTED PRISMATIC ROUND LENS  
Light Source: (84) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2470.0 lumens  
Efficiency: N/A  
Efficacy: 118.8 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.3 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

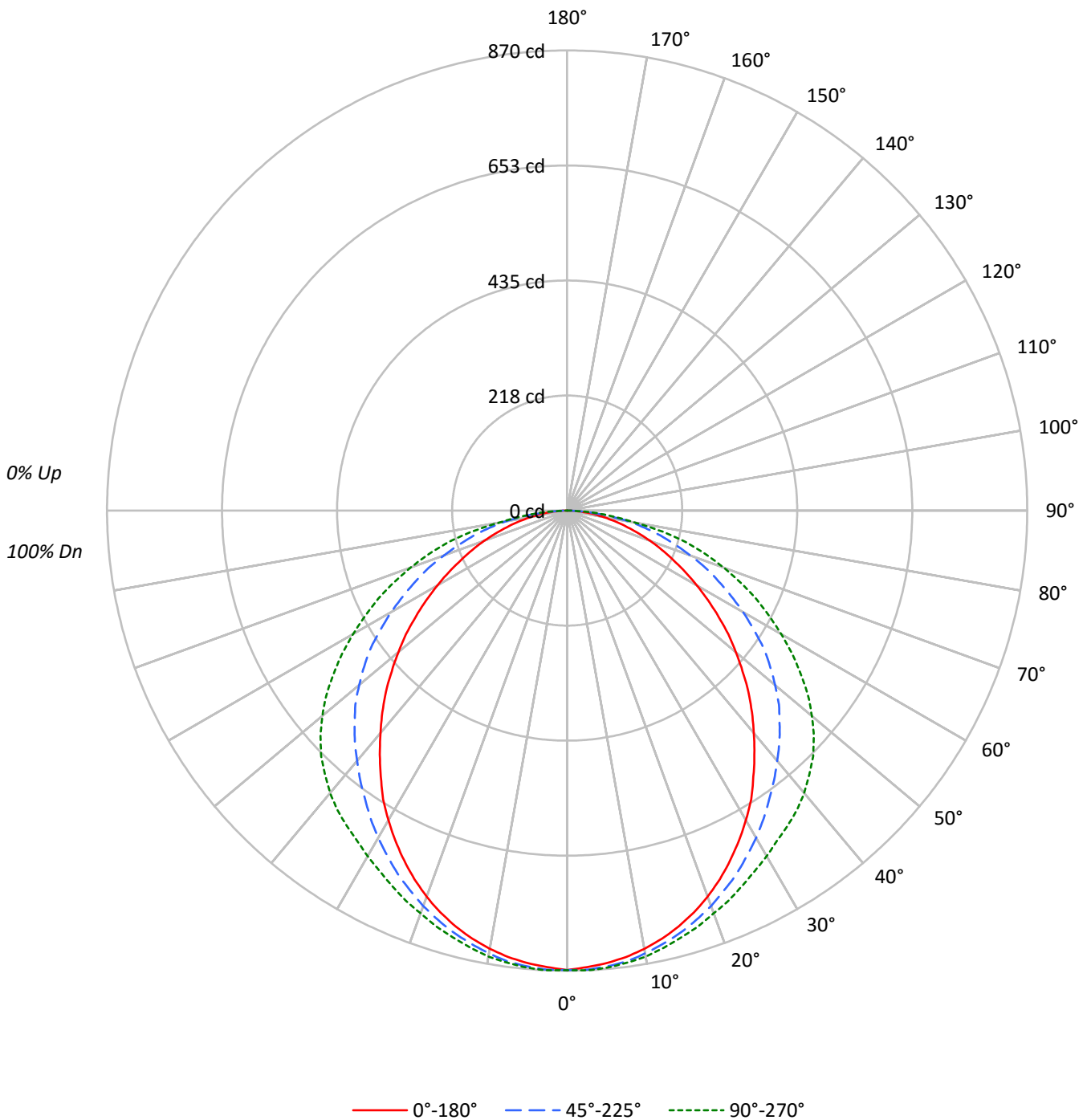
Input Watts (W): 20.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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					100			
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69					69			
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42					42			
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37					37			
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33					33			
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29					29			
9	56	43	34	29	55	42	34	29	41	33	28	40	33	28	39	33	28	26					26			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24					24			

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

	0°	45°	90°
0°	2338	2338	2338
5°	2320	2337	2343
10°	2299	2323	2340
15°	2268	2303	2327
20°	2225	2278	2320
25°	2166	2251	2325
30°	2101	2220	2344
35°	2017	2189	2389
40°	1930	2170	2449
45°	1845	2162	2502
50°	1743	2149	2529
55°	1638	2128	2531
60°	1525	2067	2515
65°	1408	2010	2509
70°	1310	1946	2474
75°	1188	1900	2430
80°	1060	1830	2022
85°	960	1457	1766



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.0	3.3
10°-20°	232.9	9.4
20°-30°	348.9	14.1
30°-40°	418.8	17.0
40°-50°	438.9	17.8
50°-60°	399.8	16.2
60°-70°	308.7	12.5
70°-80°	187.4	7.6
80°-90°	52.6	2.1
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°	663.9	26.9
0°-40°	1082.7	43.8
0°-60°	1921.5	77.8
0°-90°	2470.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2470.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	869	869	869	869	869	
5°	859	861	865	868	868	81
15°	814	819	826	834	835	229
25°	730	738	758	776	783	336
35°	614	629	666	710	727	384
45°	485	506	568	633	658	373
55°	349	378	454	516	539	313
65°	221	252	316	372	394	221
75°	114	137	183	221	234	122
85°	31	37	47	55	57	35
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	868.8	868.8	868.8	868.8	868.8
2.5°	863.8	865.0	868.8	870.0	870.0
5°	858.8	861.3	865.0	867.5	867.5
7.5°	851.4	853.8	860.1	862.5	862.5
10°	841.4	845.1	850.1	855.1	856.3
12.5°	829.0	832.7	838.9	845.1	846.4
15°	814.1	819.0	826.5	834.0	835.2
17.5°	796.7	801.6	811.6	821.5	824.0
20°	776.8	781.8	795.4	807.9	810.3
22.5°	754.4	761.9	776.8	792.9	797.9
25°	729.6	738.3	758.1	775.5	783.0
27.5°	703.5	713.4	735.8	759.4	768.1
30°	676.1	686.1	714.6	742.0	754.4
32.5°	647.5	657.5	691.0	725.8	739.5
35°	614.0	628.9	666.2	709.7	727.1
37.5°	581.7	599.1	642.6	693.5	713.4
40°	549.3	568.0	617.7	674.9	697.2
42.5°	517.0	536.9	594.1	656.2	677.4
45°	484.7	505.8	568.0	632.6	657.5
47.5°	449.9	473.5	543.1	606.5	632.6
50°	416.4	442.5	513.3	580.4	604.0
52.5°	384.0	408.9	483.5	550.6	574.2
55°	349.2	377.8	453.6	515.8	539.4
57.5°	315.7	345.5	417.6	482.2	504.6
60°	283.4	312.0	384.0	446.2	467.3
62.5°	252.3	282.1	349.2	408.9	430.0
65°	221.2	252.3	315.7	371.6	394.0
67.5°	193.9	221.2	283.4	335.6	354.2
70°	166.5	190.2	247.3	297.0	314.4
72.5°	139.2	162.8	213.8	258.5	274.7
75°	114.3	136.7	182.7	221.2	233.7
77.5°	90.7	110.6	150.4	181.5	185.2
80°	68.4	84.5	118.1	131.7	130.5
82.5°	49.7	60.9	79.5	89.5	89.5
85°	31.1	37.3	47.2	54.7	57.2
87.5°	13.7	16.2	19.9	21.1	18.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)