

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: P220085

Luminaire Tested: **R3-WG-1L40-LD5-UNV-22**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220085  
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-1L40-LD5-UNV-22  
Description: CLASS R3 2X2 RECESSED LED LUMIANIRE  
WITH A CLEAR SMOOTH ROUND LENS & RECTANGULAR PERF INLAY  
Light Source: (84) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1986.5 lumens  
Efficiency: N/A  
Efficacy: 121.1 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

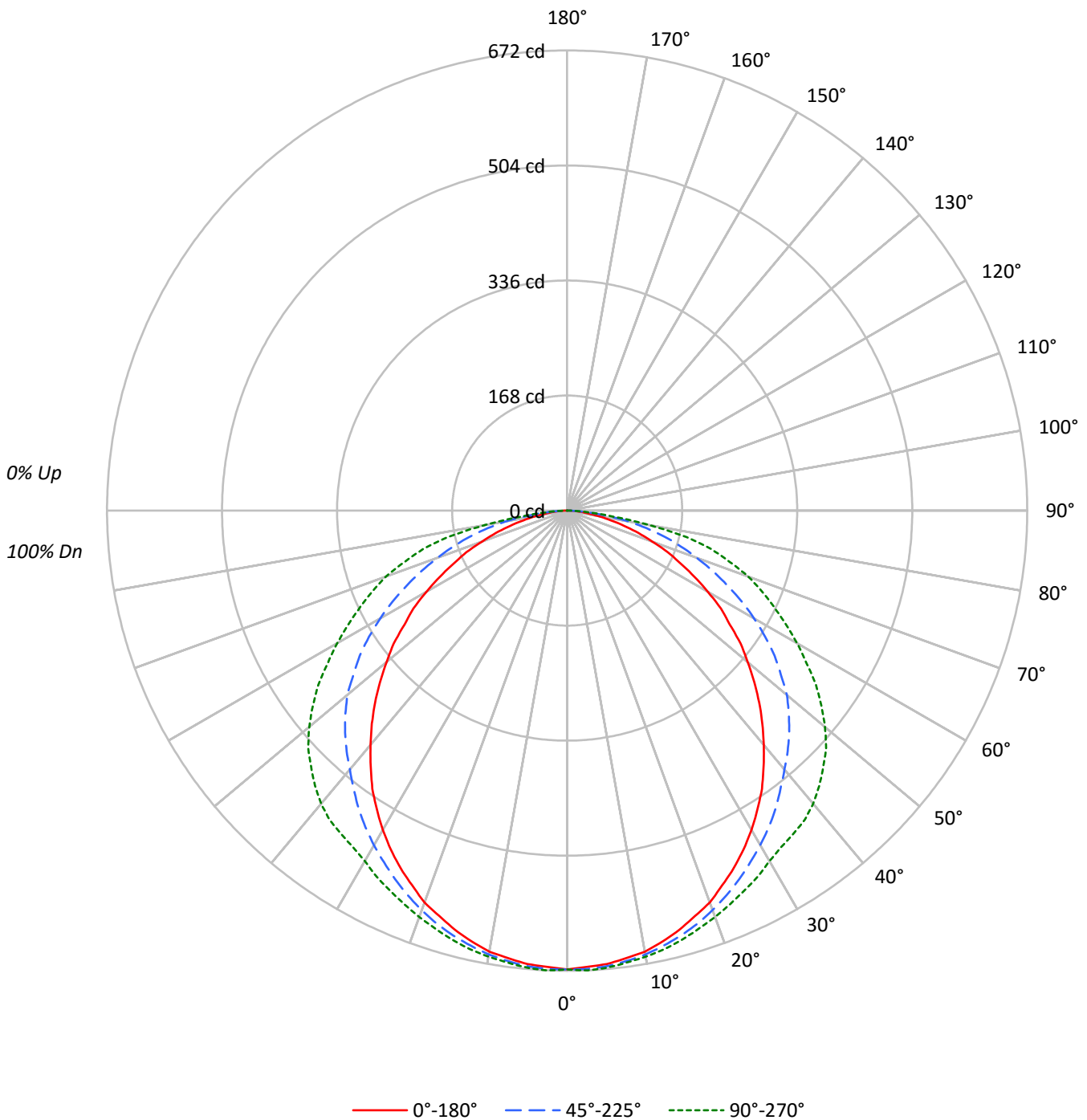
Input Watts (W): 16.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1803	1803	1803
5°	1796	1804	1810
10°	1787	1799	1808
15°	1765	1789	1807
20°	1744	1778	1809
25°	1710	1764	1818
30°	1674	1753	1836
35°	1629	1745	1892
40°	1569	1734	1963
45°	1509	1745	2013
50°	1441	1754	2058
55°	1359	1735	2081
60°	1277	1697	2088
65°	1163	1640	2123
70°	1042	1581	2212
75°	900	1534	2267
80°	713	1407	1888
85°	528	923	1022



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	63.4	3.2
10°-20°	181.1	9.1
20°-30°	274.0	13.8
30°-40°	333.8	16.8
40°-50°	355.6	17.9
50°-60°	328.5	16.5
60°-70°	256.0	12.9
70°-80°	156.9	7.9
80°-90°	37.2	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°	518.5	26.1
0°-40°	852.3	42.9
0°-60°	1536.4	77.3
0°-90°	1986.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1986.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	670	670	670	670	670	
5°	665	666	668	669	670	63
15°	634	636	642	648	649	179
25°	576	581	594	607	612	265
35°	496	504	531	561	576	309
45°	396	412	458	511	529	306
55°	290	315	370	423	444	261
65°	183	208	258	309	333	182
75°	87	106	148	196	218	92
85°	17	24	30	35	33	21
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	670.1	670.1	670.1	670.1	670.1
2.5°	666.9	667.9	670.1	671.1	672.2
5°	664.7	665.8	667.9	669.0	670.1
7.5°	659.4	661.5	663.6	665.8	665.8
10°	654.0	655.1	658.3	660.4	661.5
12.5°	644.4	646.5	650.8	655.1	656.2
15°	633.7	635.9	642.3	647.6	648.7
17.5°	620.9	625.2	632.7	638.0	640.1
20°	609.1	612.3	620.9	628.4	631.6
22.5°	592.0	597.4	608.1	617.7	622.0
25°	576.0	581.4	594.2	607.0	612.3
27.5°	557.8	564.3	579.2	597.4	602.7
30°	538.6	545.0	564.3	584.6	591.0
32.5°	517.2	524.7	548.2	571.7	582.4
35°	495.9	504.4	531.1	561.1	576.0
37.5°	471.3	483.0	511.9	551.4	569.6
40°	446.7	459.5	493.7	541.8	558.9
42.5°	422.1	436.0	476.6	526.9	545.0
45°	396.5	412.5	458.5	510.8	529.0
47.5°	370.8	387.9	439.2	492.7	513.0
50°	344.1	363.3	418.9	471.3	491.6
52.5°	319.5	337.7	393.3	447.8	468.1
55°	289.6	315.3	369.8	423.2	443.5
57.5°	266.1	285.3	343.0	395.4	414.6
60°	237.2	258.6	315.3	366.6	387.9
62.5°	209.5	234.0	287.5	337.7	360.1
65°	182.7	208.4	257.5	308.8	333.4
67.5°	159.2	181.7	229.8	282.1	307.8
70°	132.5	153.9	200.9	254.3	281.1
72.5°	109.0	130.4	174.2	226.6	249.0
75°	86.6	105.8	147.5	195.6	218.0
77.5°	65.2	83.4	118.6	160.3	178.5
80°	46.0	62.0	90.8	115.4	121.8
82.5°	31.0	42.7	57.7	69.5	68.4
85°	17.1	23.5	29.9	35.3	33.1
87.5°	6.4	7.5	10.7	10.7	10.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)