

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: P220087

Luminaire Tested: **R3-WG-3L40-LD5-UNV-22**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220087
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-3L40-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: 2957.1 lumens
Efficiency: N/A
Efficacy: 115.5 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

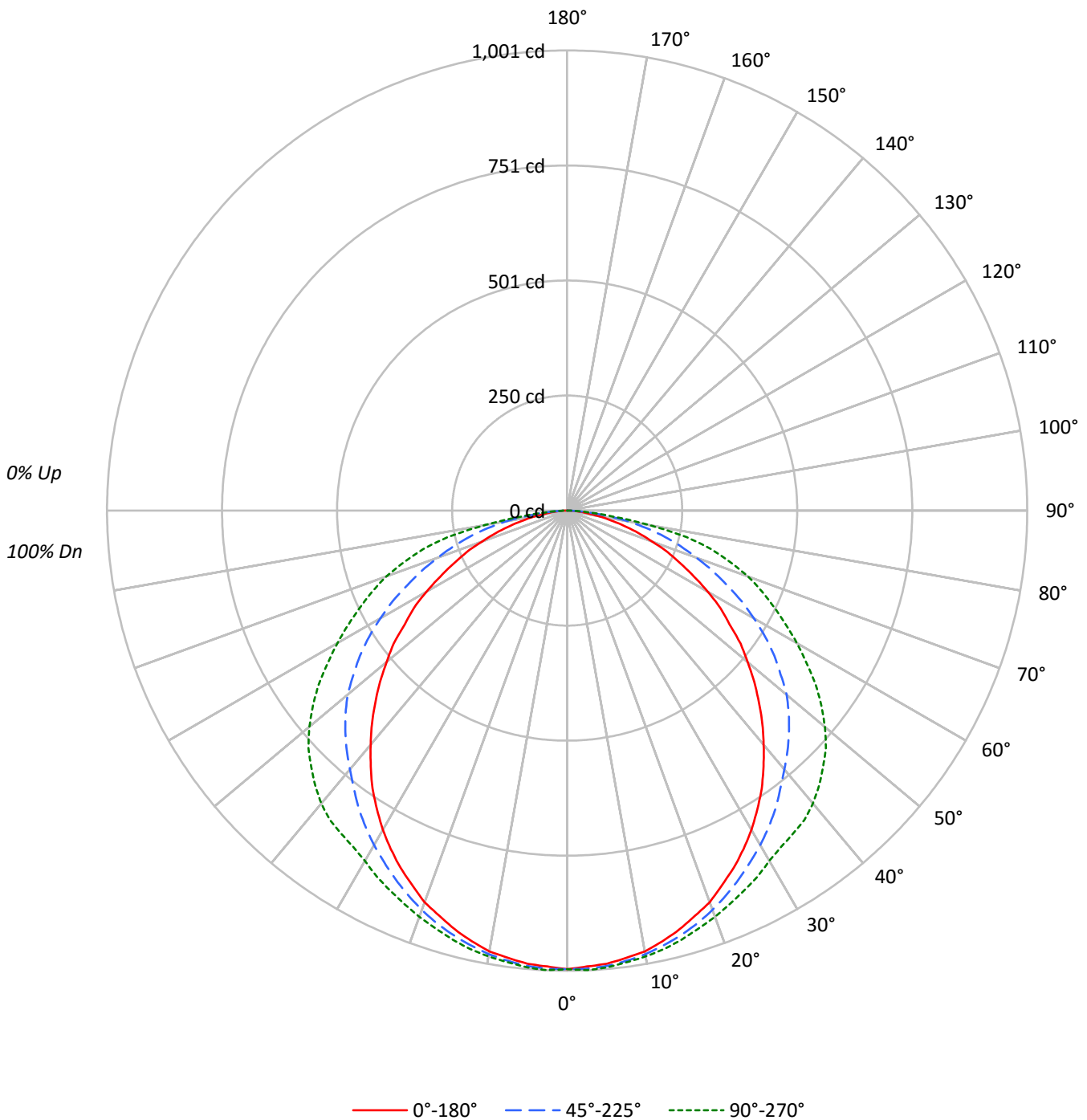
Input Watts (W): 25.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2684	2684	2684
5°	2673	2686	2695
10°	2660	2678	2691
15°	2628	2664	2690
20°	2597	2647	2692
25°	2546	2626	2707
30°	2491	2610	2733
35°	2425	2598	2817
40°	2336	2582	2923
45°	2246	2597	2997
50°	2145	2611	3064
55°	2023	2582	3097
60°	1901	2526	3108
65°	1732	2441	3160
70°	1552	2353	3292
75°	1340	2282	3374
80°	1060	2095	2811
85°	787	1374	1522



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.4	3.2
10°-20°	269.6	9.1
20°-30°	407.9	13.8
30°-40°	496.9	16.8
40°-50°	529.3	17.9
50°-60°	489.0	16.5
60°-70°	381.2	12.9
70°-80°	233.5	7.9
80°-90°	55.3	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°	771.9	26.1
0°-40°	1268.8	42.9
0°-60°	2287.1	77.3
0°-90°	2957.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2957.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	998	998	998	998	998	
5°	990	991	994	996	998	94
15°	943	947	956	964	966	266
25°	858	865	884	904	912	395
35°	738	751	791	835	858	461
45°	590	614	682	760	788	455
55°	431	469	550	630	660	388
65°	272	310	383	460	496	271
75°	129	158	220	291	324	137
85°	26	35	44	52	49	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	997.5	997.5	997.5	997.5	997.5
2.5°	992.7	994.3	997.5	999.1	1000.6
5°	989.5	991.1	994.3	995.9	997.5
7.5°	981.6	984.7	987.9	991.1	991.1
10°	973.6	975.2	980.0	983.1	984.7
12.5°	959.3	962.5	968.8	975.2	976.8
15°	943.4	946.6	956.1	964.1	965.6
17.5°	924.3	930.6	941.8	949.7	952.9
20°	906.8	911.6	924.3	935.4	940.2
22.5°	881.3	889.3	905.2	919.5	925.9
25°	857.5	865.4	884.5	903.6	911.6
27.5°	830.4	840.0	862.2	889.3	897.2
30°	801.8	811.3	840.0	870.2	879.7
32.5°	770.0	781.1	816.1	851.1	867.0
35°	738.2	750.9	790.7	835.2	857.5
37.5°	701.6	719.1	762.0	820.9	847.9
40°	665.0	684.1	735.0	806.6	832.0
42.5°	628.4	649.1	709.5	784.3	811.3
45°	590.2	614.1	682.5	760.4	787.5
47.5°	552.0	577.5	653.8	733.4	763.6
50°	512.3	540.9	623.6	701.6	731.8
52.5°	475.7	502.7	585.4	666.6	696.8
55°	431.1	469.3	550.4	630.0	660.2
57.5°	396.1	424.8	510.7	588.6	617.2
60°	353.2	385.0	469.3	545.7	577.5
62.5°	311.8	348.4	427.9	502.7	536.1
65°	272.0	310.2	383.4	459.8	496.3
67.5°	237.0	270.4	342.0	420.0	458.2
70°	197.3	229.1	299.1	378.6	418.4
72.5°	162.3	194.1	259.3	337.3	370.7
75°	128.9	157.5	219.5	291.1	324.5
77.5°	97.0	124.1	176.6	238.6	265.7
80°	68.4	92.3	135.2	171.8	181.4
82.5°	46.1	63.6	85.9	103.4	101.8
85°	25.5	35.0	44.5	52.5	49.3
87.5°	9.5	11.1	15.9	15.9	15.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)