

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: CORELITE

Report Number: P688619

Luminaire Tested: SQ4R-PW1-075D-940-1-UNV-STD-W-4

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688619
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2203-586-35)
Test Lab: INNOVATION CENTER
Issue Date: 5/22/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4R-PW1-075D-940-1-UNV-STD-W-4
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
750 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2388.8 lumens
Efficiency: N/A
Efficacy: 89.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.2 / 1.29
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')
CIE Type: Direct

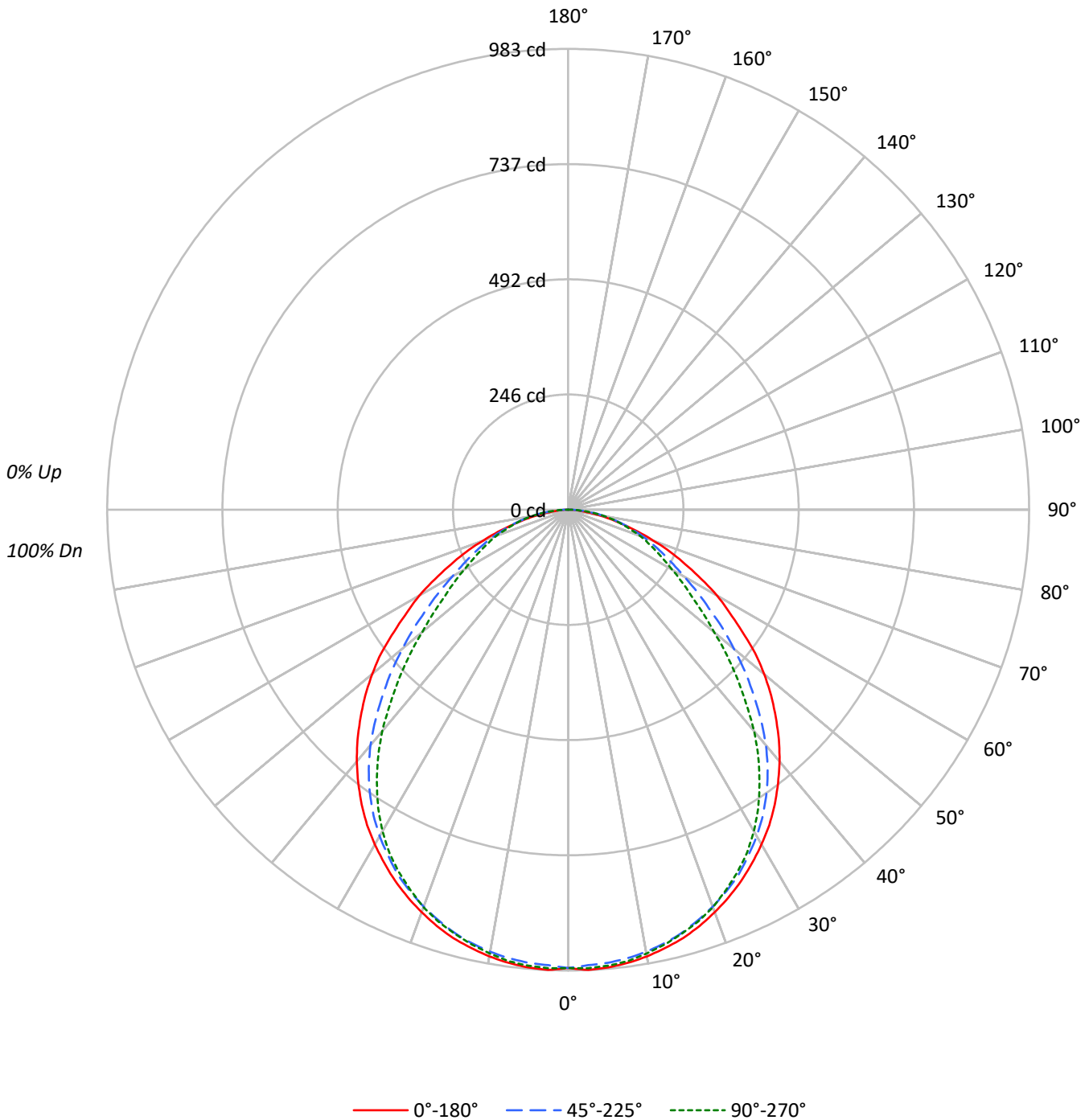
Input Watts (W): 26.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P688619

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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	103	99	96	99	96	93		95	92	90		91	89	87	85
2	100	92	86	81	98	91	85	80	87	82	78		84	80	76		81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66		75	69	65		72	68	64	62
4	85	73	65	58	82	72	64	58	69	63	57		67	61	56		65	60	56	54
5	78	66	57	51	76	65	57	50	63	55	50		61	54	49		59	53	49	47
6	72	59	51	45	70	59	50	44	57	49	44		55	49	44		54	48	43	41
7	67	54	46	40	65	53	45	40	52	45	39		50	44	39		49	43	39	37
8	63	50	41	36	61	49	41	36	48	40	35		46	40	35		45	39	35	33
9	59	46	38	32	57	45	37	32	44	37	32		43	36	32		42	36	32	30
10	55	42	34	29	54	42	34	29	41	34	29		40	33	29		39	33	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9413	9413	9413
5°	9473	9375	9436
10°	9459	9361	9398
15°	9431	9318	9331
20°	9360	9231	9244
25°	9278	9130	9064
30°	9165	8940	8801
35°	9024	8669	8360
40°	8812	8244	7754
45°	8520	7614	6946
50°	8169	6908	6079
55°	7593	6138	5378
60°	7065	5493	4937
65°	6269	5096	4665
70°	5447	4847	4599
75°	4486	4583	4393
80°	3554	4319	4319
85°	2640	3888	4021

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 8520 cd/sqm

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CATALOG NUMBER: SQ4R-PW1-075D-940-1-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.8	3.9
10°-20°	264.9	11.1
20°-30°	396.8	16.6
30°-40°	461.1	19.3
40°-50°	435.0	18.2
50°-60°	339.4	14.2
60°-70°	230.4	9.6
70°-80°	129.8	5.4
80°-90°	38.5	1.6
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°	754.5	31.6
0°-40°	1215.6	50.9
0°-60°	1990.1	83.3
0°-90°	2388.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2388.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	978	978	978	978	978	
5°	980	978	970	978	976	93
15°	946	942	935	940	936	267
25°	873	870	860	857	853	402
35°	768	760	738	721	711	480
45°	626	607	559	524	510	483
55°	452	426	366	330	320	406
65°	275	250	224	210	205	275
75°	121	126	123	118	118	131
85°	24	34	35	35	36	29
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	977.7	977.7	977.7	977.7	977.7
2.5°	982.7	980.2	972.6	980.2	978.9
5°	980.2	977.7	970.1	977.7	976.4
7.5°	975.1	973.9	965.1	972.6	971.4
10°	967.6	966.4	957.6	963.8	961.3
12.5°	957.6	956.3	947.5	952.5	950.0
15°	946.2	942.5	934.9	940.0	936.2
17.5°	931.2	927.4	918.6	922.4	921.1
20°	913.6	909.8	901.0	904.8	902.3
22.5°	894.7	891.0	880.9	882.2	878.4
25°	873.4	869.6	859.5	857.0	853.3
27.5°	849.5	847.0	831.9	829.4	825.6
30°	824.4	820.6	804.2	799.2	791.7
32.5°	798.0	790.4	772.8	762.8	754.0
35°	767.8	760.3	737.6	721.3	711.3
37.5°	735.1	723.8	698.7	676.1	666.0
40°	701.2	688.6	656.0	625.8	617.0
42.5°	664.8	649.7	608.2	576.8	561.7
45°	625.8	607.0	559.2	524.0	510.2
47.5°	586.8	563.0	511.5	473.8	458.7
50°	545.4	516.5	461.2	421.0	405.9
52.5°	502.7	471.2	414.7	373.2	361.9
55°	452.4	426.0	365.7	330.5	320.4
57.5°	407.1	378.2	325.5	295.3	287.8
60°	366.9	331.8	285.3	262.6	256.4
62.5°	320.4	289.0	252.6	235.0	228.7
65°	275.2	250.1	223.7	209.9	204.8
67.5°	236.2	214.9	197.3	186.0	183.5
70°	193.5	182.2	172.2	163.4	163.4
72.5°	157.1	153.3	147.0	142.0	138.2
75°	120.6	125.7	123.2	118.1	118.1
77.5°	91.7	99.3	100.5	98.0	99.3
80°	64.1	75.4	77.9	76.7	77.9
82.5°	40.2	54.0	56.5	56.5	57.8
85°	23.9	33.9	35.2	35.2	36.4
87.5°	10.1	16.3	17.6	17.6	17.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)