

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: P688582

Luminaire Tested: SQ4R-PR1-075D-935-1-UNV-STD-W-4

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688582
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/22/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4R-PR1-075D-935-1-UNV-STD-W-4
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
750 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2482.1 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.23 / 1.34
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')
CIE Type: Direct

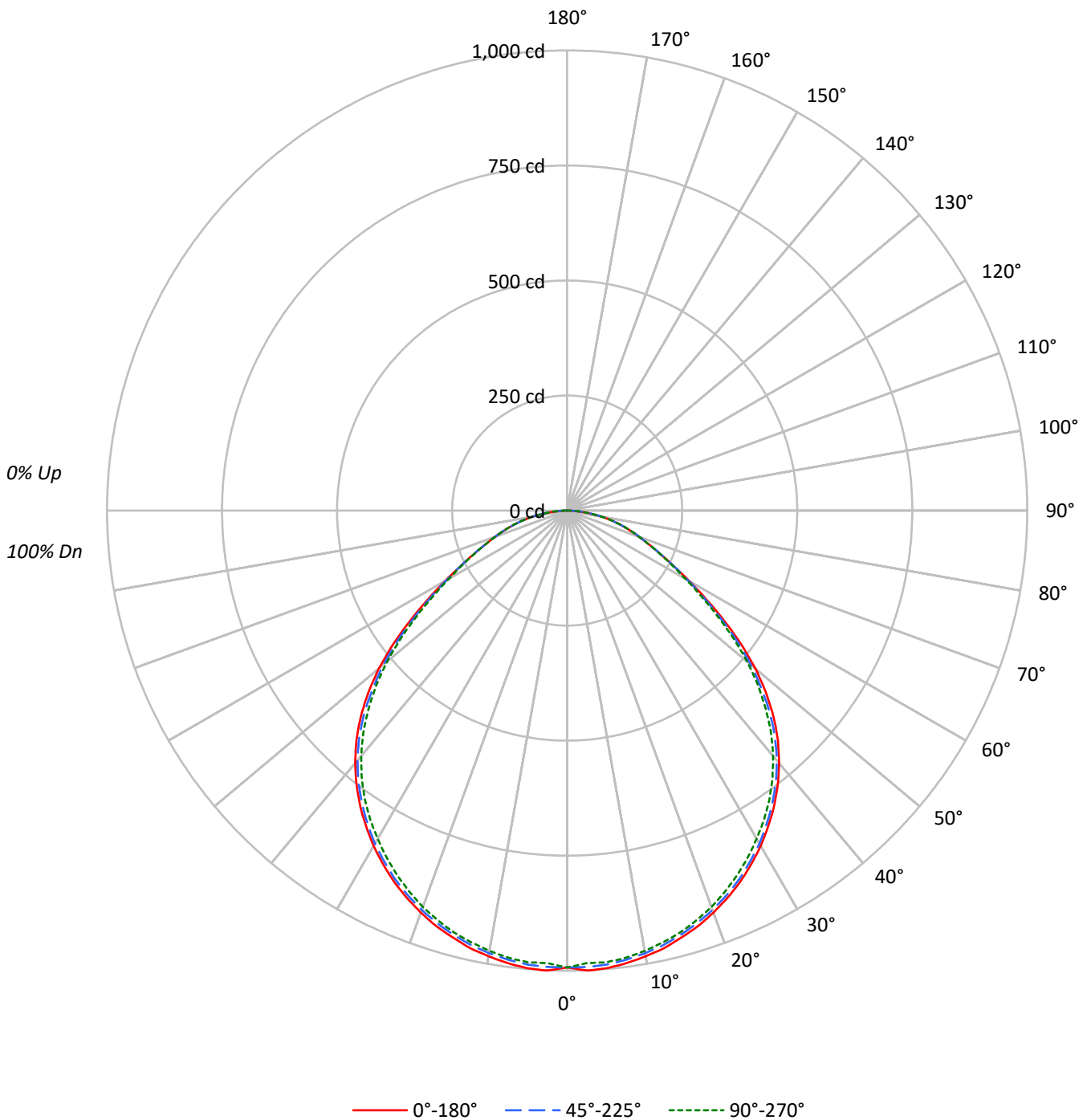
Input Watts (W): 26.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72
3	92	82	74	68	90	80	73	68	78	71	66	75	70	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	58	50	44	57	49	44	55	49	44	53	48	43	41
7	67	54	46	40	65	53	45	39	52	44	39	50	44	39	49	43	39	37
8	63	49	41	36	61	49	41	35	47	40	35	46	40	35	45	39	35	33
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30
10	55	42	34	29	54	41	34	29	40	34	29	40	33	29	39	33	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9558	9558	9558
5°	9645	9570	9520
10°	9614	9547	9497
15°	9571	9512	9461
20°	9524	9462	9392
25°	9456	9393	9284
30°	9355	9288	9155
35°	9217	9135	9005
40°	9006	8909	8748
45°	8639	8488	8313
50°	7992	7800	7646
55°	6976	6818	6675
60°	5878	5828	5713
65°	5085	5105	5064
70°	4670	4695	4695
75°	4486	4486	4516
80°	4219	4269	4219
85°	3402	3778	3778

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 8639 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.9	3.8
10°-20°	268.8	10.8
20°-30°	405.4	16.3
30°-40°	483.1	19.5
40°-50°	476.6	19.2
50°-60°	363.5	14.6
60°-70°	224.4	9.0
70°-80°	127.9	5.2
80°-90°	38.6	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°	768.1	30.9
0°-40°	1251.2	50.4
0°-60°	2091.3	84.3
0°-90°	2482.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2482.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	993	993	993	993	993	
5°	998	987	990	987	985	95
15°	960	950	954	951	949	271
25°	890	879	884	875	874	410
35°	784	775	777	767	766	490
45°	634	626	623	612	611	487
55°	416	409	406	399	398	372
65°	223	222	224	222	222	225
75°	121	121	121	121	121	127
85°	31	32	34	34	34	36
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	992.8	992.8	992.8	992.8	992.8
2.5°	1000.5	989.4	992.8	990.3	984.3
5°	998.0	986.9	990.3	986.9	985.1
7.5°	992.0	980.9	984.3	980.9	980.0
10°	983.4	973.2	976.6	973.2	971.5
12.5°	974.0	962.9	967.2	962.9	961.2
15°	960.3	950.1	954.4	950.9	949.2
17.5°	946.7	935.5	939.8	936.4	933.8
20°	929.6	919.3	923.6	917.6	916.7
22.5°	910.7	900.5	904.8	896.2	896.2
25°	890.2	879.1	884.2	874.8	874.0
27.5°	866.3	856.0	860.3	850.9	850.0
30°	841.5	831.2	835.5	825.2	823.5
32.5°	813.3	803.9	807.3	797.0	796.2
35°	784.2	774.8	777.3	767.1	766.2
37.5°	751.7	743.1	744.8	733.7	732.9
40°	716.6	708.1	708.9	697.0	696.1
42.5°	678.1	669.6	668.7	656.8	655.9
45°	634.5	626.0	623.4	612.3	610.6
47.5°	586.6	578.1	573.0	563.6	562.7
50°	533.6	525.1	520.8	513.1	510.5
52.5°	476.3	467.8	464.4	457.5	454.9
55°	415.6	408.8	406.2	399.4	397.7
57.5°	357.5	352.3	351.5	344.6	343.8
60°	305.3	302.7	302.7	296.7	296.7
62.5°	260.8	259.1	260.8	257.4	256.5
65°	223.2	221.5	224.1	222.3	222.3
67.5°	191.6	191.6	193.3	192.4	192.4
70°	165.9	165.9	166.8	166.8	166.8
72.5°	142.8	142.0	144.5	144.5	143.7
75°	120.6	120.6	120.6	121.4	121.4
77.5°	98.3	98.3	99.2	99.2	98.3
80°	76.1	77.0	77.0	76.1	76.1
82.5°	53.9	54.7	54.7	54.7	53.9
85°	30.8	32.5	34.2	34.2	34.2
87.5°	11.1	14.5	17.1	17.1	16.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)