

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: P688579

Luminaire Tested: SQ4R-PR1-075D-835-1-UNV-STD-W-4

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688579
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-835-1-UNV-STD-W-4
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
750 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2890.9 lumens
Efficiency: N/A
Efficacy: 107.9 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

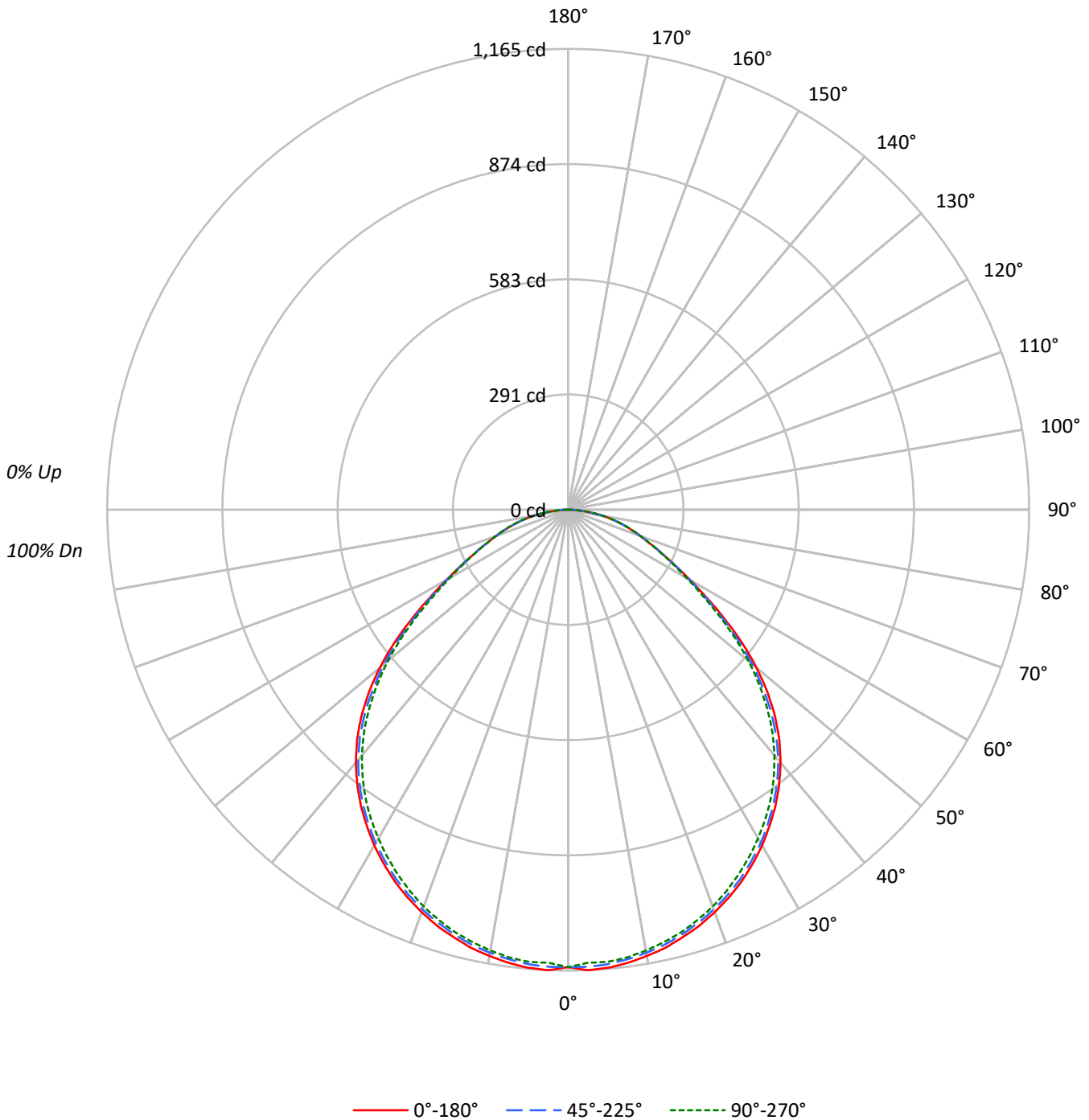
Input Watts (W): 26.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20										
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	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85					85															
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72					72															
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62					62															
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54					54															
5	78	66	57	51	76	65	57	51	63	55	50	61	54	49	59	53	49	47					47															
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	41					41															
7	67	54	46	40	65	53	45	39	52	44	39	50	44	39	49	43	39	37					37															
8	63	49	41	36	61	49	41	35	47	40	35	46	40	35	45	39	35	33					33															
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30					30															
10	55	42	34	29	54	41	34	29	40	34	29	40	33	29	39	33	29	27					27															

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11133	11133	11133
5°	11234	11147	11089
10°	11197	11120	11061
15°	11148	11079	11019
20°	11092	11021	10939
25°	11015	10940	10813
30°	10895	10818	10663
35°	10735	10641	10488
40°	10490	10377	10190
45°	10063	9886	9683
50°	9309	9085	8906
55°	8126	7941	7775
60°	6847	6789	6654
65°	5923	5946	5900
70°	5438	5466	5466
75°	5222	5222	5260
80°	4912	4968	4912
85°	3966	4396	4396

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 10063 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.4	3.8
10°-20°	313.0	10.8
20°-30°	472.1	16.3
30°-40°	562.7	19.5
40°-50°	555.1	19.2
50°-60°	423.4	14.6
60°-70°	261.3	9.0
70°-80°	148.9	5.1
80°-90°	44.9	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°	894.6	30.9
0°-40°	1457.3	50.4
0°-60°	2435.8	84.3
0°-90°	2890.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2890.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1156	1156	1156	1156	1156	
5°	1162	1149	1153	1149	1147	110
15°	1118	1107	1112	1108	1106	316
25°	1037	1024	1030	1019	1018	477
35°	913	902	905	893	892	570
45°	739	729	726	713	711	567
55°	484	476	473	465	463	434
65°	260	258	261	259	259	262
75°	140	140	140	141	141	148
85°	36	38	40	40	40	42
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1156.4	1156.4	1156.4	1156.4	1156.4
2.5°	1165.3	1152.4	1156.4	1153.4	1146.4
5°	1162.4	1149.4	1153.4	1149.4	1147.4
7.5°	1155.4	1142.4	1146.4	1142.4	1141.4
10°	1145.4	1133.5	1137.5	1133.5	1131.5
12.5°	1134.5	1121.5	1126.5	1121.5	1119.5
15°	1118.5	1106.6	1111.6	1107.6	1105.6
17.5°	1102.6	1089.7	1094.6	1090.6	1087.7
20°	1082.7	1070.7	1075.7	1068.7	1067.7
22.5°	1060.8	1048.8	1053.8	1043.8	1043.8
25°	1036.9	1023.9	1029.9	1018.9	1017.9
27.5°	1009.0	997.0	1002.0	991.0	990.0
30°	980.1	968.1	973.1	961.2	959.2
32.5°	947.2	936.3	940.2	928.3	927.3
35°	913.4	902.4	905.4	893.4	892.4
37.5°	875.5	865.5	867.5	854.6	853.6
40°	834.7	824.7	825.7	811.8	810.8
42.5°	789.8	779.9	778.9	764.9	764.0
45°	739.1	729.1	726.1	713.2	711.2
47.5°	683.3	673.3	667.3	656.4	655.4
50°	621.5	611.6	606.6	597.6	594.6
52.5°	554.8	544.8	540.8	532.9	529.9
55°	484.1	476.1	473.1	465.1	463.2
57.5°	416.3	410.4	409.4	401.4	400.4
60°	355.6	352.6	352.6	345.6	345.6
62.5°	303.8	301.8	303.8	299.8	298.8
65°	260.0	258.0	261.0	259.0	259.0
67.5°	223.1	223.1	225.1	224.1	224.1
70°	193.2	193.2	194.2	194.2	194.2
72.5°	166.3	165.3	168.3	168.3	167.3
75°	140.4	140.4	140.4	141.4	141.4
77.5°	114.5	114.5	115.5	115.5	114.5
80°	88.6	89.6	89.6	88.6	88.6
82.5°	62.7	63.7	63.7	63.7	62.7
85°	35.9	37.8	39.8	39.8	39.8
87.5°	12.9	16.9	19.9	19.9	18.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)