

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: P688549

Luminaire Tested: SQ4R-PP3-100D-835-1-UNV-STD-W-4

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688549
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/22/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4R-PP3-100D-835-1-UNV-STD-W-4
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
1000 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3871.1 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')
CIE Type: Direct

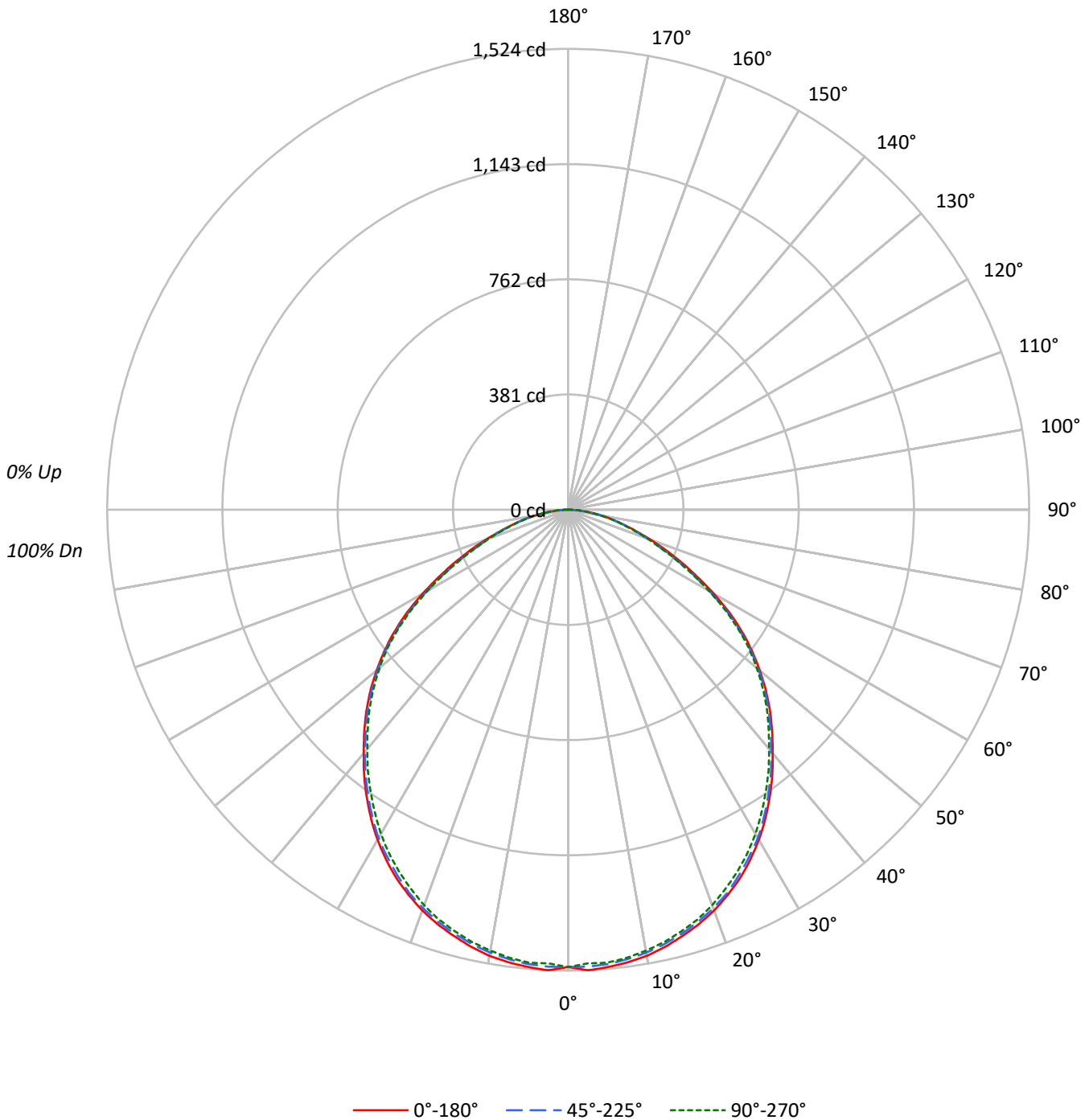
Input Watts (W): 37
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P688549

CATALOG NUMBER: SQ4R-PP3-100D-835-1-UNV-STD-W-4

Luminous Intensity Polar Plot



TEST NUMBER: P688549

CATALOG NUMBER: SQ4R-PP3-100D-835-1-UNV-STD-W-4

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	98	95	93		95	92	90		91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77		84	79	76		81	77	74	72
3	92	81	74	67	89	80	73	67	77	71	66		74	69	64		72	67	63	61
4	84	72	64	57	82	71	63	57	69	62	56		66	60	56		64	59	55	53
5	77	65	56	50	75	64	56	50	62	55	49		60	53	48		58	52	48	46
6	72	59	50	44	70	58	49	43	56	49	43		54	48	43		53	47	42	40
7	66	53	45	39	65	52	44	39	51	44	38		49	43	38		48	42	38	36
8	62	49	40	35	60	48	40	34	47	39	34		45	39	34		44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31		42	35	31		41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28		39	33	28		38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14561	14561	14561
5°	14668	14579	14528
10°	14644	14541	14475
15°	14547	14468	14388
20°	14451	14369	14260
25°	14279	14180	14040
30°	14015	13940	13764
35°	13649	13555	13383
40°	13211	13128	12979
45°	12850	12760	12633
50°	12389	12310	12190
55°	11748	11593	11504
60°	10694	10388	10338
65°	9422	9030	8998
70°	8135	7800	7800
75°	7001	6904	6803
80°	6176	6248	6099
85°	4827	5269	5269

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12850 cd/sqm

TEST NUMBER: P688549

CATALOG NUMBER: SQ4R-PP3-100D-835-1-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.1	3.7
10°-20°	408.6	10.6
20°-30°	612.1	15.8
30°-40°	717.8	18.5
40°-50°	720.1	18.6
50°-60°	614.9	15.9
60°-70°	399.6	10.3
70°-80°	200.1	5.2
80°-90°	54.9	1.4
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°	1163.8	30.1
0°-40°	1881.6	48.6
0°-60°	3216.5	83.1
0°-90°	3871.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3871.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1512	1512	1512	1512	1512	
5°	1518	1503	1509	1503	1503	144
15°	1460	1445	1452	1446	1444	412
25°	1344	1328	1335	1323	1322	619
35°	1161	1149	1153	1140	1139	726
45°	944	937	937	928	928	727
55°	700	697	691	687	685	623
65°	414	406	396	394	395	412
75°	188	188	186	184	183	203
85°	44	48	48	48	48	52
90°	0	0	0	0	0	

TEST NUMBER: P688549

CATALOG NUMBER: SQ4R-PP3-100D-835-1-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1512.5	1512.5	1512.5	1512.5	1512.5
2.5°	1524.5	1508.6	1512.5	1509.9	1501.9
5°	1517.8	1503.3	1508.6	1503.3	1503.3
7.5°	1509.9	1494.0	1499.3	1494.0	1494.0
10°	1498.0	1482.1	1487.4	1482.1	1480.7
12.5°	1480.7	1464.8	1471.4	1464.8	1464.8
15°	1459.5	1444.9	1451.6	1446.3	1443.6
17.5°	1437.0	1421.1	1429.0	1422.4	1421.1
20°	1410.5	1394.6	1402.5	1391.9	1391.9
22.5°	1378.7	1362.7	1372.0	1357.4	1357.4
25°	1344.2	1328.3	1334.9	1323.0	1321.7
27.5°	1304.4	1288.5	1295.1	1281.9	1281.9
30°	1260.7	1246.1	1254.0	1239.5	1238.1
32.5°	1213.0	1199.7	1205.0	1190.4	1189.1
35°	1161.3	1149.3	1153.3	1140.0	1138.7
37.5°	1108.2	1095.0	1100.3	1088.3	1088.3
40°	1051.2	1043.3	1044.6	1035.3	1032.7
42.5°	998.2	988.9	990.2	981.0	981.0
45°	943.8	937.2	937.2	927.9	927.9
47.5°	886.8	881.5	880.2	872.3	872.3
50°	827.2	823.2	821.9	815.3	813.9
52.5°	764.9	763.6	758.3	753.0	753.0
55°	699.9	697.3	690.7	686.7	685.4
57.5°	631.0	625.7	619.1	612.4	613.8
60°	555.4	550.1	539.5	536.9	536.9
62.5°	482.5	475.9	465.3	461.3	464.0
65°	413.6	405.6	396.4	393.7	395.0
67.5°	350.0	342.0	331.4	331.4	330.1
70°	289.0	285.0	277.1	277.1	277.1
72.5°	234.6	233.3	228.0	228.0	226.7
75°	188.2	188.2	185.6	184.3	182.9
77.5°	148.5	148.5	147.1	145.8	143.2
80°	111.4	114.0	112.7	111.4	110.0
82.5°	76.9	79.5	79.5	76.9	76.9
85°	43.7	47.7	47.7	47.7	47.7
87.5°	14.6	19.9	21.2	21.2	22.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)