

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: P688477

Luminaire Tested: SQ4R-PC3-100D-835-1-UNV-STD-W-4

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688477
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/22/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4R-PC3-100D-835-1-UNV-STD-W-4
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PYRAMID 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: 3908.1 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')
CIE Type: Direct

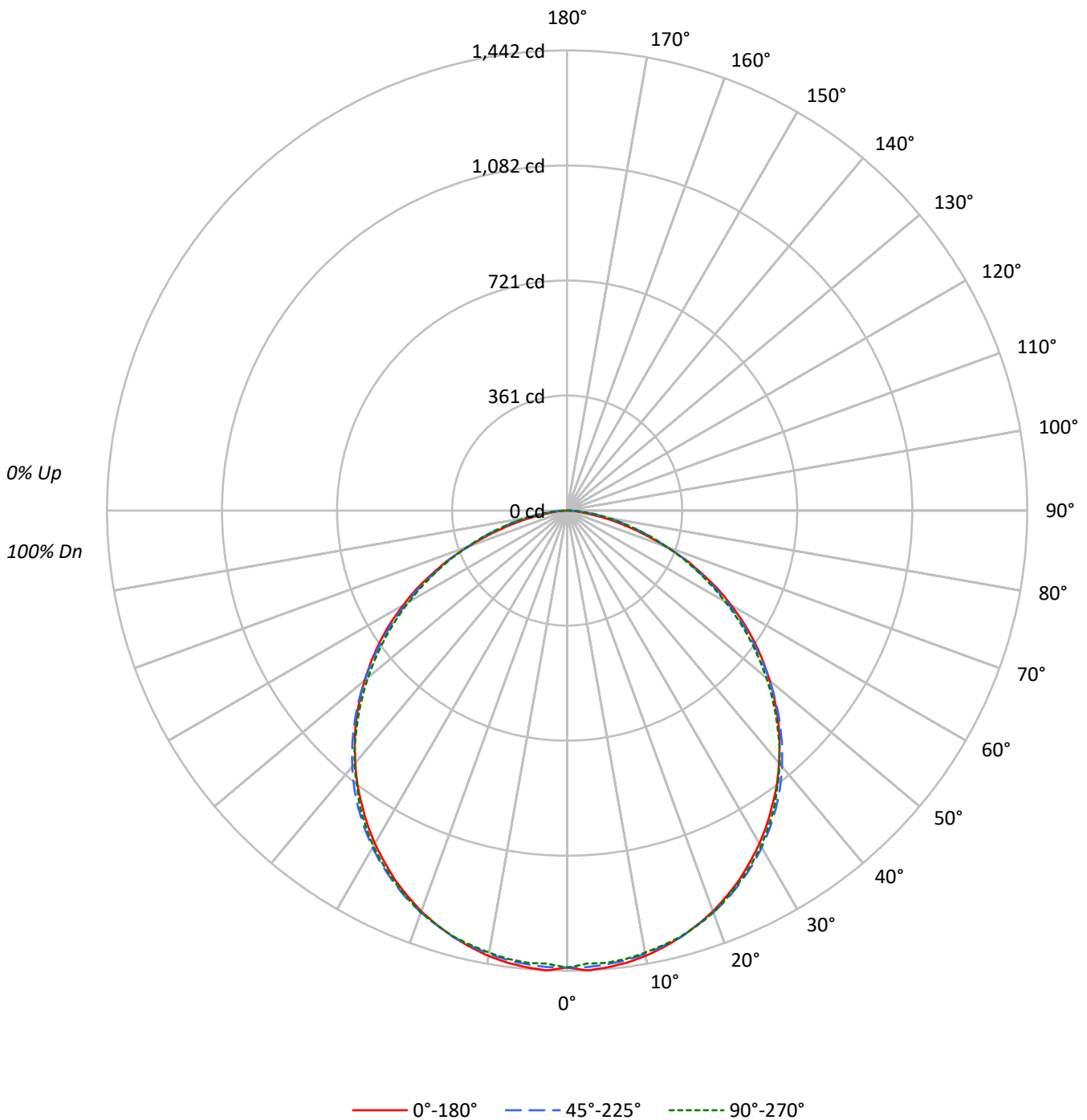
Input Watts (W): 37
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85				85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71				71
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60				60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51				51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44				44
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39				39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34				34
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31				31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28				28
10	54	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25				25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13783	13783	13783
5°	13887	13797	13746
10°	13853	13789	13750
15°	13781	13781	13767
20°	13691	13731	13731
25°	13561	13660	13617
30°	13396	13558	13499
35°	13196	13399	13305
40°	12979	13162	13029
45°	12742	12832	12635
50°	12409	12409	12211
55°	12016	11860	11682
60°	11435	11206	11027
65°	10570	10358	10267
70°	9255	9328	9292
75°	7447	8235	8284
80°	5289	6980	7058
85°	3225	5854	5854

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 12832 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.6	3.5
10°-20°	389.0	10.0
20°-30°	589.1	15.1
30°-40°	706.4	18.1
40°-50°	720.2	18.4
50°-60°	628.6	16.1
60°-70°	450.1	11.5
70°-80°	231.2	5.9
80°-90°	57.8	1.5
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°	1113.7	28.5
0°-40°	1820.2	46.6
0°-60°	3169.0	81.1
0°-90°	3908.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3908.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1432	1432	1432	1432	1432	
5°	1437	1422	1428	1424	1422	137
15°	1383	1371	1383	1383	1381	390
25°	1277	1267	1286	1282	1282	588
35°	1123	1120	1140	1132	1132	703
45°	936	933	942	931	928	721
55°	716	707	707	696	696	639
65°	464	453	455	451	451	460
75°	200	210	221	223	223	215
85°	29	45	53	54	53	39
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1431.7	1431.7	1431.7	1431.7	1431.7
2.5°	1442.3	1426.4	1431.7	1427.7	1421.1
5°	1437.0	1422.4	1427.7	1423.8	1422.4
7.5°	1429.1	1414.5	1421.1	1418.5	1417.1
10°	1417.1	1402.6	1410.5	1407.9	1406.5
12.5°	1401.2	1388.0	1397.2	1394.6	1394.6
15°	1382.7	1370.7	1382.7	1382.7	1381.3
17.5°	1360.1	1349.5	1361.5	1362.8	1361.5
20°	1336.3	1324.3	1340.2	1338.9	1340.2
22.5°	1307.1	1297.8	1315.1	1311.1	1312.4
25°	1276.6	1267.3	1285.9	1281.9	1281.9
27.5°	1240.8	1234.2	1254.1	1250.1	1250.1
30°	1205.0	1198.4	1219.6	1214.3	1214.3
32.5°	1165.3	1161.3	1181.2	1174.5	1174.5
35°	1122.8	1120.2	1140.1	1132.1	1132.1
37.5°	1080.4	1077.8	1096.3	1087.0	1083.1
40°	1032.7	1031.4	1047.3	1036.7	1036.7
42.5°	985.0	983.6	996.9	983.6	983.6
45°	935.9	933.3	942.5	930.6	928.0
47.5°	882.9	880.2	886.9	873.6	872.3
50°	828.5	825.9	828.5	816.6	815.3
52.5°	772.9	767.6	767.6	755.6	755.6
55°	715.9	706.6	706.6	696.0	696.0
57.5°	656.2	644.3	645.6	636.3	635.0
60°	593.9	580.6	582.0	574.0	572.7
62.5°	532.9	517.0	521.0	511.7	511.7
65°	464.0	453.4	454.7	450.7	450.7
67.5°	400.4	389.7	396.4	392.4	392.4
70°	328.8	322.1	331.4	331.4	330.1
72.5°	262.5	263.8	275.7	275.7	277.1
75°	200.2	209.5	221.4	222.7	222.7
77.5°	143.2	159.1	172.3	172.3	172.3
80°	95.4	114.0	125.9	128.6	127.3
82.5°	57.0	76.9	86.2	88.8	87.5
85°	29.2	45.1	53.0	54.4	53.0
87.5°	10.6	22.5	26.5	26.5	23.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)