

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: P688898

Luminaire Tested: SQ4R-PR1-075D-92765-1-UNV-STD-W-4_6500K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688898
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-92765-1-UNV-STD-W-4_6500K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
750 LUMENS PER FOOT
Light Source: 6500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2999.6 lumens
Efficiency: N/A
Efficacy: 91.5 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

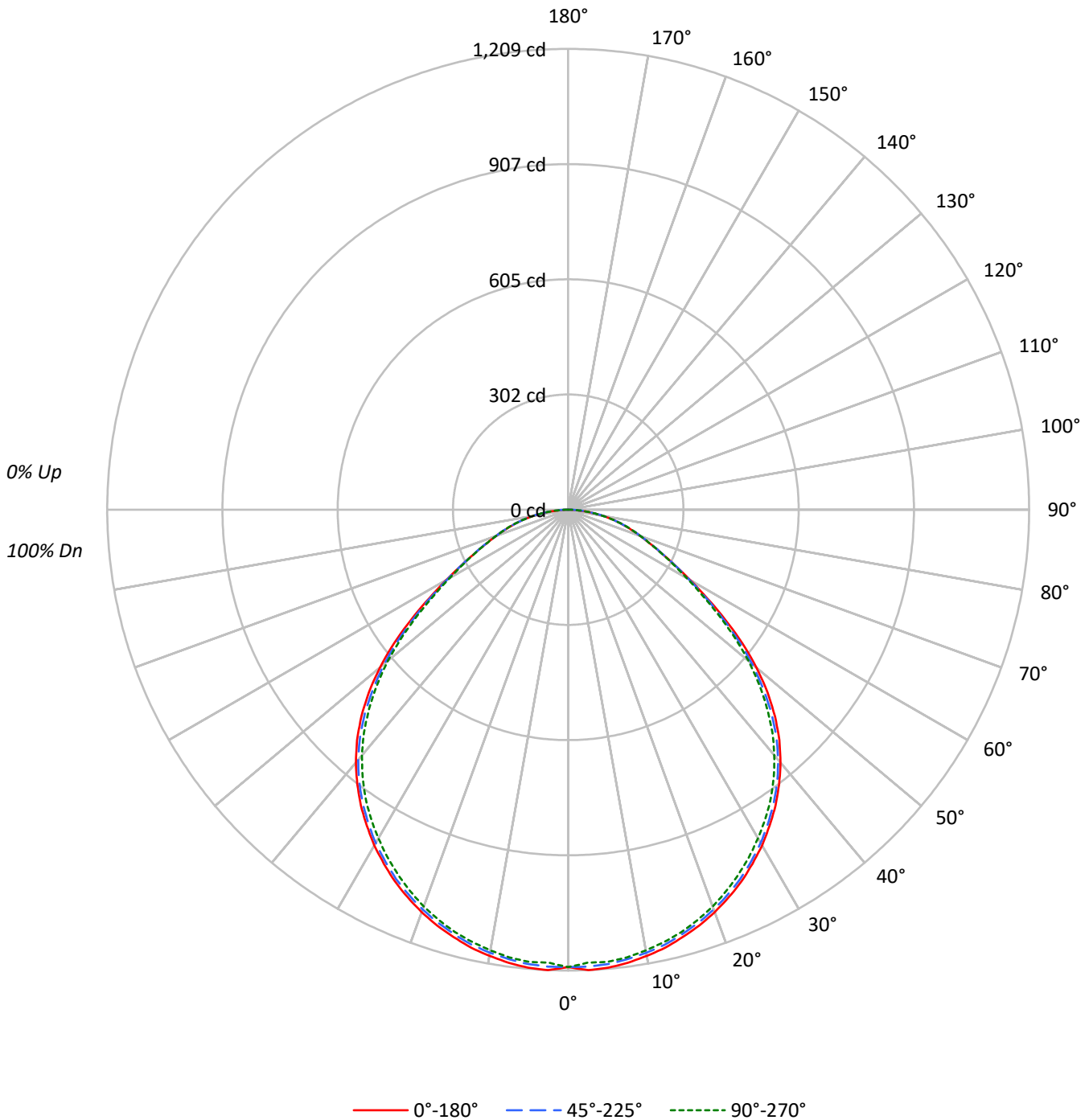
Input Watts (W): 32.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	11552	11552	11552
5°	11656	11566	11506
10°	11619	11537	11477
15°	11568	11496	11434
20°	11509	11436	11351
25°	11428	11351	11220
30°	11305	11225	11063
35°	11138	11041	10883
40°	10885	10768	10572
45°	10440	10258	10047
50°	9659	9427	9241
55°	8431	8240	8067
60°	7105	7043	6905
65°	6144	6169	6121
70°	5644	5672	5672
75°	5420	5420	5461
80°	5101	5156	5101
85°	4109	4562	4562

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 10440 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.5	3.8
10°-20°	324.8	10.8
20°-30°	489.9	16.3
30°-40°	583.8	19.5
40°-50°	575.9	19.2
50°-60°	439.3	14.6
60°-70°	271.2	9.0
70°-80°	154.5	5.2
80°-90°	46.6	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°	928.2	30.9
0°-40°	1512.1	50.4
0°-60°	2527.4	84.3
0°-90°	2999.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2999.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1200	1200	1200	1200	1200	
5°	1206	1193	1197	1193	1191	115
15°	1161	1148	1153	1149	1147	328
25°	1076	1062	1069	1057	1056	495
35°	948	936	939	927	926	592
45°	767	756	753	740	738	588
55°	502	494	491	483	481	450
65°	270	268	271	269	269	272
75°	146	146	146	147	147	154
85°	37	39	41	41	41	44
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1199.9	1199.9	1199.9	1199.9	1199.9
2.5°	1209.2	1195.7	1199.9	1196.8	1189.5
5°	1206.1	1192.6	1196.8	1192.6	1190.6
7.5°	1198.8	1185.4	1189.5	1185.4	1184.4
10°	1188.5	1176.1	1180.2	1176.1	1174.0
12.5°	1177.1	1163.7	1168.9	1163.7	1161.6
15°	1160.6	1148.2	1153.4	1149.2	1147.2
17.5°	1144.1	1130.6	1135.8	1131.7	1128.6
20°	1123.4	1111.0	1116.2	1108.9	1107.9
22.5°	1100.6	1088.2	1093.4	1083.1	1083.1
25°	1075.8	1062.4	1068.6	1057.2	1056.2
27.5°	1046.9	1034.5	1039.7	1028.3	1027.3
30°	1016.9	1004.5	1009.7	997.3	995.2
32.5°	982.8	971.5	975.6	963.2	962.2
35°	947.7	936.3	939.4	927.0	926.0
37.5°	908.4	898.1	900.2	886.7	885.7
40°	866.1	855.7	856.8	842.3	841.2
42.5°	819.5	809.2	808.2	793.7	792.7
45°	766.8	756.5	753.4	740.0	737.9
47.5°	709.0	698.6	692.4	681.1	680.0
50°	644.9	634.6	629.4	620.1	617.0
52.5°	575.6	565.3	561.2	552.9	549.8
55°	502.3	494.0	490.9	482.6	480.6
57.5°	432.0	425.8	424.8	416.5	415.5
60°	369.0	365.8	365.8	358.6	358.6
62.5°	315.2	313.1	315.2	311.1	310.0
65°	269.7	267.7	270.8	268.7	268.7
67.5°	231.5	231.5	233.6	232.5	232.5
70°	200.5	200.5	201.5	201.5	201.5
72.5°	172.6	171.6	174.7	174.7	173.6
75°	145.7	145.7	145.7	146.8	146.8
77.5°	118.8	118.8	119.9	119.9	118.8
80°	92.0	93.0	93.0	92.0	92.0
82.5°	65.1	66.1	66.1	66.1	65.1
85°	37.2	39.3	41.3	41.3	41.3
87.5°	13.4	17.6	20.7	20.7	19.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)