

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P1055116

Luminaire Tested: SQ4R-PC3-125D-927-1-UNV-STD-W-4

Issue Date: 7/23/2025

Test Information

Test Method: LM-79-2019
Report Number: P1055116
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/23/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4R-PC3-125D-927-1-UNV-STD-W-4
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
1250 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

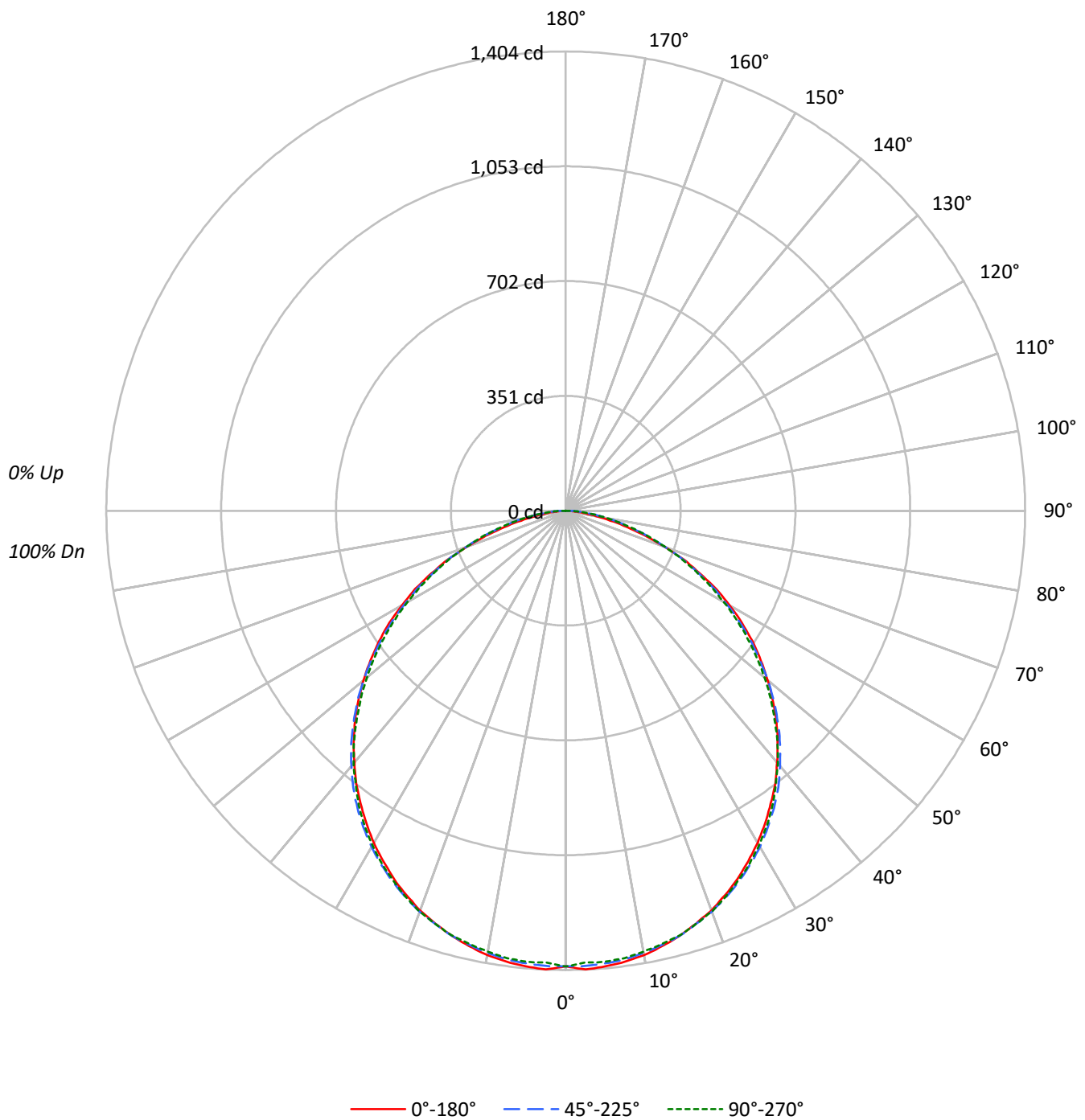
Lumens per Lamp: N/A
Luminaire Lumens: 3803.1 lumens
Efficiency: N/A
Efficacy: 76.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 49.5
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
RW	70	50	30	10	70	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		100
1	109	105	100	97	106	102	98	95	98	95	92			94	92	89		85
2	99	91	85	79	97	90	83	78	86	81	76			83	78	75		71
3	91	80	72	66	88	79	71	65	76	70	64			73	68	63		60
4	83	71	63	56	81	70	62	56	68	61	55			65	59	54		51
5	77	64	55	48	74	63	54	48	61	53	48			59	52	47		44
6	71	58	49	42	69	57	48	42	55	47	42			53	46	41		39
7	66	52	43	37	64	51	43	37	50	42	37			48	42	37		34
8	61	48	39	33	60	47	39	33	46	38	33			44	38	33		31
9	57	44	36	30	56	43	35	30	42	35	30			41	34	30		28
10	54	40	32	27	52	40	32	27	39	32	27			38	31	27		25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13414	13414	13414
5°	13514	13427	13377
10°	13482	13418	13381
15°	13411	13411	13398
20°	13323	13363	13363
25°	13196	13293	13252
30°	13037	13194	13137
35°	12842	13040	12948
40°	12630	12808	12678
45°	12401	12488	12294
50°	12076	12076	11883
55°	11692	11541	11368
60°	11127	10904	10731
65°	10285	10080	9991
70°	9005	9078	9041
75°	7246	8012	8061
80°	5151	6797	6864
85°	3137	5700	5700

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 12488 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.9	3.5
10°-20°	378.6	10.0
20°-30°	573.3	15.1
30°-40°	687.4	18.1
40°-50°	700.9	18.4
50°-60°	611.7	16.1
60°-70°	438.0	11.5
70°-80°	225.0	5.9
80°-90°	56.3	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°	1083.8	28.5
0°-40°	1771.3	46.6
0°-60°	3083.9	81.1
0°-90°	3803.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3803.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1393	1393	1393	1393	1393	
5°	1398	1384	1389	1386	1384	133
15°	1346	1334	1346	1346	1344	380
25°	1242	1233	1251	1248	1248	572
35°	1093	1090	1110	1102	1102	684
45°	911	908	917	906	903	702
55°	697	688	688	677	677	621
65°	452	441	442	439	439	447
75°	195	204	215	217	217	210
85°	28	44	52	53	52	38
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1393.3	1393.3	1393.3	1393.3	1393.3
2.5°	1403.6	1388.1	1393.3	1389.4	1382.9
5°	1398.4	1384.2	1389.4	1385.5	1384.2
7.5°	1390.7	1376.5	1382.9	1380.4	1379.1
10°	1379.1	1364.9	1372.6	1370.0	1368.8
12.5°	1363.6	1350.7	1359.7	1357.1	1357.1
15°	1345.5	1333.9	1345.5	1345.5	1344.2
17.5°	1323.6	1313.3	1324.9	1326.2	1324.9
20°	1300.4	1288.8	1304.3	1303.0	1304.3
22.5°	1272.0	1263.0	1279.7	1275.9	1277.2
25°	1242.3	1233.3	1251.4	1247.5	1247.5
27.5°	1207.5	1201.0	1220.4	1216.5	1216.5
30°	1172.7	1166.2	1186.9	1181.7	1181.7
32.5°	1134.0	1130.1	1149.4	1143.0	1143.0
35°	1092.7	1090.1	1109.5	1101.7	1101.7
37.5°	1051.4	1048.8	1066.9	1057.8	1054.0
40°	1005.0	1003.7	1019.1	1008.8	1008.8
42.5°	958.5	957.2	970.1	957.2	957.2
45°	910.8	908.2	917.2	905.6	903.0
47.5°	859.2	856.6	863.1	850.1	848.9
50°	806.3	803.7	806.3	794.7	793.4
52.5°	752.1	746.9	746.9	735.3	735.3
55°	696.6	687.6	687.6	677.3	677.3
57.5°	638.6	627.0	628.3	619.2	617.9
60°	577.9	565.0	566.3	558.6	557.3
62.5°	518.6	503.1	507.0	498.0	498.0
65°	451.5	441.2	442.5	438.6	438.6
67.5°	389.6	379.3	385.7	381.9	381.9
70°	319.9	313.5	322.5	322.5	321.2
72.5°	255.4	256.7	268.3	268.3	269.6
75°	194.8	203.8	215.4	216.7	216.7
77.5°	139.3	154.8	167.7	167.7	167.7
80°	92.9	110.9	122.6	125.1	123.8
82.5°	55.5	74.8	83.9	86.4	85.1
85°	28.4	43.9	51.6	52.9	51.6
87.5°	10.3	21.9	25.8	25.8	23.2
90°	0.0	0.0	0.0	0.0	0.0

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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	20.61	22.23	20.98	22.54	22.86	20.50	22.11	20.87	22.43	22.74
	3H	22.17	23.62	22.54	23.95	24.31	22.10	23.56	22.48	23.89	24.25
	4H	22.64	24.01	23.04	24.36	24.73	22.67	24.04	23.06	24.38	24.76
	6H	22.89	24.16	23.30	24.53	24.92	23.05	24.32	23.46	24.68	25.07
	8H	22.94	24.15	23.37	24.54	24.94	23.17	24.38	23.59	24.76	25.16
	12H	22.96	24.12	23.39	24.50	24.93	23.24	24.40	23.67	24.78	25.21
4H	2H	21.18	22.55	21.58	22.90	23.27	21.09	22.46	21.49	22.81	23.18
	3H	22.92	24.07	23.33	24.47	24.87	22.90	24.04	23.30	24.44	24.84
	4H	23.51	24.54	23.94	24.95	25.39	23.57	24.60	24.00	25.02	25.46
	6H	23.87	24.77	24.33	25.21	25.67	24.07	24.97	24.53	25.41	25.87
	8H	23.95	24.79	24.41	25.24	25.70	24.23	25.07	24.69	25.51	25.98
	12H	23.99	24.75	24.47	25.22	25.69	24.34	25.10	24.82	25.57	26.04
8H	4H	23.76	24.61	24.22	25.05	25.51	23.82	24.66	24.28	25.11	25.57
	6H	24.23	24.93	24.72	25.41	25.89	24.43	25.13	24.92	25.61	26.09
	8H	24.36	24.99	24.87	25.50	25.98	24.65	25.27	25.16	25.78	26.27
	12H	24.45	25.01	24.96	25.50	26.06	24.83	25.38	25.33	25.87	26.43
12H	4H	23.79	24.54	24.27	25.02	25.49	23.84	24.59	24.32	25.07	25.54
	6H	24.27	24.89	24.78	25.40	25.89	24.46	25.09	24.97	25.59	26.08
	8H	24.45	25.01	24.96	25.50	26.06	24.73	25.28	25.24	25.78	26.34