

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: P1036245

Luminaire Tested: SQ4R-PC3-100D-B2750-1D-UNV-W2A_3000K

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-2019
Report Number: P1036245
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P562810)
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4R-PC3-100D-B2750-1D-UNV-W2A_3000K
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, DIRECT ONLY 1000 LUMENS PER FOOT DC

Light Source: -
Ballast/Driver: -

Summary

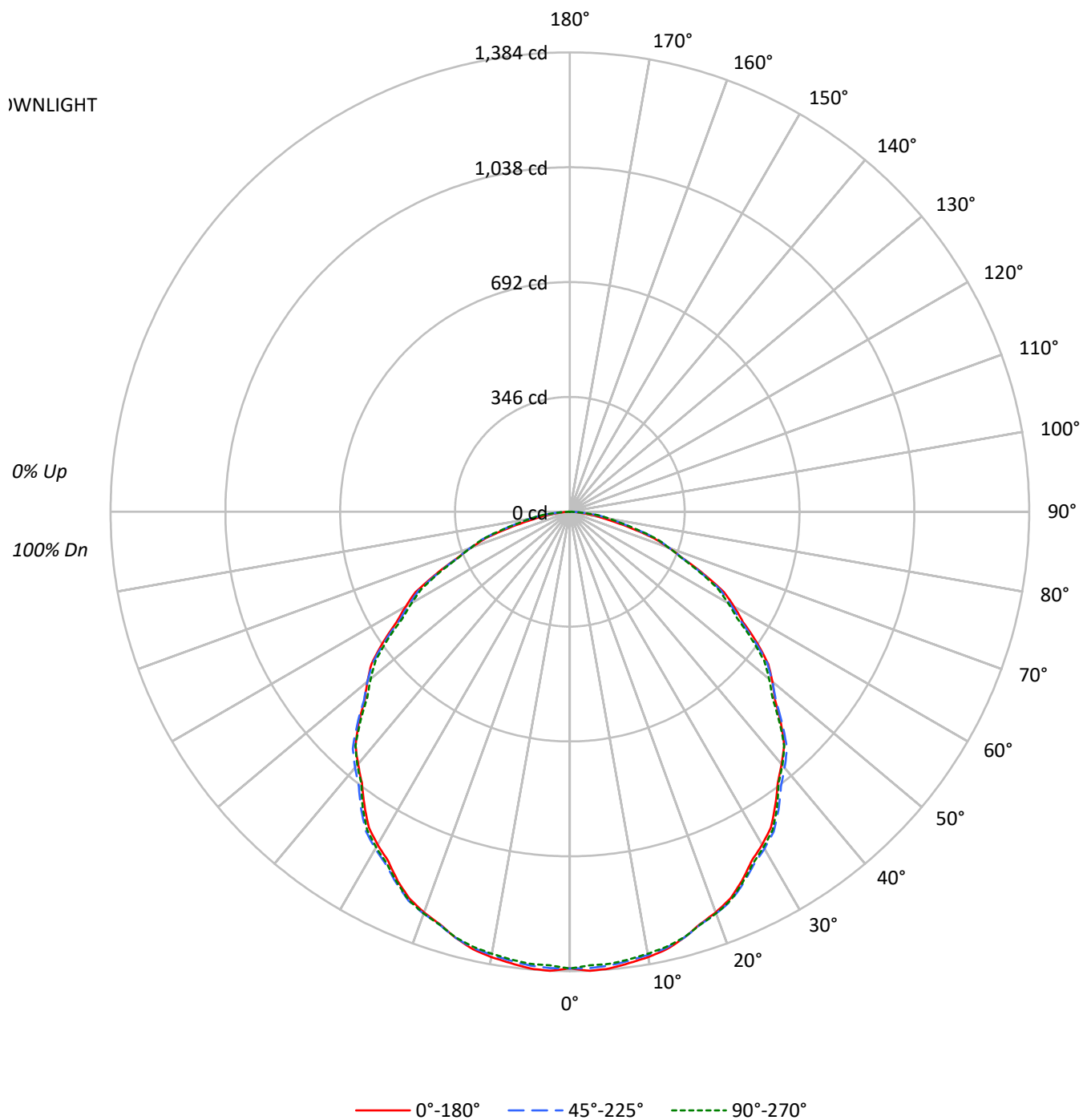
Lumens per Lamp: N/A
Luminaire Lumens: 3755.8 lumens
Efficiency: N/A
Efficacy: 107.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 34.9
Input Voltage (V): NR
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		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	105	100	97	106	102	98	95	98	95	92		94	92	89		91
2	99	91	85	79	97	90	83	78	86	81	76		83	78	75		80
3	91	80	72	66	88	79	71	65	76	70	64		73	68	63		71
4	83	71	63	56	81	70	62	56	68	61	55		65	59	54		63
5	77	64	55	48	74	63	54	48	61	53	48		59	52	47		57
6	71	58	49	42	69	57	48	42	55	47	42		53	46	41		52
7	66	52	43	37	64	51	43	37	50	42	37		48	42	37		47
8	61	48	39	33	60	47	39	33	46	38	33		44	38	33		43
9	57	44	36	30	56	43	35	30	42	35	30		41	34	30		40
10	54	40	32	27	52	40	32	27	39	32	27		38	31	27		37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12695	12695	12695
5°	12793	12710	12663
10°	12762	12703	12665
15°	12695	12695	12682
20°	12612	12648	12648
25°	12492	12581	12544
30°	12339	12488	12434
35°	12156	12342	12255
40°	11954	12123	12002
45°	11739	11821	11637
50°	11431	11431	11249
55°	11068	10925	10763
60°	10534	10322	10156
65°	9734	9542	9457
70°	8527	8592	8562
75°	6859	7589	7632
80°	4877	6429	6498
85°	2975	5388	5388

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 11821 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.2	3.5
10°-20°	373.8	10.0
20°-30°	566.0	15.1
30°-40°	678.6	18.1
40°-50°	691.9	18.4
50°-60°	604.0	16.1
60°-70°	432.4	11.5
70°-80°	222.7	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°	1070.0	28.5
0°-40°	1748.5	46.6
0°-60°	3044.4	81.1
0°-90°	3755.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3755.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1376	1376	1376	1376	1376	
5°	1381	1368	1372	1368	1367	131
15°	1329	1318	1329	1329	1328	375
25°	1227	1218	1236	1232	1232	565
35°	1079	1077	1096	1088	1088	675
45°	900	897	906	894	892	692
55°	688	679	679	669	669	613
65°	446	436	437	433	433	441
75°	192	201	213	214	214	208
85°	28	43	51	52	51	39
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1376.0	1376.0	1376.0	1376.0	1376.0
2.5°	1384.4	1372.4	1376.0	1373.0	1367.9
5°	1381.3	1367.5	1372.4	1368.4	1367.3
7.5°	1371.3	1357.6	1364.0	1361.3	1360.1
10°	1362.2	1348.3	1355.9	1353.2	1351.9
12.5°	1349.9	1337.2	1345.6	1343.1	1342.7
15°	1329.1	1317.9	1329.1	1329.1	1327.7
17.5°	1302.7	1292.6	1304.5	1305.3	1304.5
20°	1284.5	1273.3	1288.2	1286.9	1288.2
22.5°	1262.1	1252.8	1268.9	1265.5	1266.9
25°	1227.1	1218.4	1235.9	1232.2	1232.2
27.5°	1185.8	1179.5	1198.8	1194.6	1194.6
30°	1158.2	1152.1	1172.2	1167.1	1167.1
32.5°	1127.6	1123.5	1142.8	1136.7	1136.7
35°	1079.3	1076.7	1095.8	1088.1	1088.1
37.5°	1029.2	1027.1	1044.4	1035.2	1032.1
40°	992.5	991.4	1006.6	996.5	996.5
42.5°	955.9	954.6	968.0	955.7	955.7
45°	899.7	897.0	906.0	894.4	891.9
47.5°	838.1	835.7	841.2	828.7	827.4
50°	796.4	793.8	796.4	784.8	783.7
52.5°	753.5	749.0	749.4	738.0	737.8
55°	688.1	679.4	679.2	669.1	669.1
57.5°	618.7	607.3	608.4	599.7	598.3
60°	570.9	558.4	559.4	551.7	550.4
62.5°	523.8	509.6	512.4	503.9	503.7
65°	445.9	435.9	437.1	433.2	433.2
67.5°	371.0	361.8	368.5	365.5	365.3
70°	316.1	309.7	318.5	318.5	317.4
72.5°	265.1	264.9	275.6	275.6	276.5
75°	192.4	201.1	212.9	214.1	214.1
77.5°	128.5	143.9	156.9	157.3	157.1
80°	91.8	109.2	121.0	123.7	122.3
82.5°	62.1	80.6	90.4	92.9	91.8
85°	28.1	43.1	50.9	52.3	50.9
87.5°	8.1	17.2	20.5	20.5	18.5
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	20.30	21.91	20.66	22.23	22.54	20.18	21.80	20.55	22.11	22.43
	3H	21.84	23.30	22.22	23.62	23.98	21.78	23.24	22.16	23.57	23.93
	4H	22.35	23.72	22.75	24.07	24.44	22.38	23.75	22.78	24.10	24.48
	6H	22.59	23.86	23.00	24.22	24.61	22.75	24.02	23.16	24.38	24.77
	8H	22.65	23.86	23.08	24.25	24.65	22.89	24.10	23.31	24.49	24.89
	12H	22.68	23.83	23.10	24.22	24.65	22.97	24.13	23.40	24.52	24.94
4H	2H	20.89	22.26	21.29	22.61	22.98	20.80	22.17	21.20	22.52	22.89
	3H	22.65	23.79	23.06	24.19	24.59	22.62	23.77	23.03	24.16	24.56
	4H	23.26	24.29	23.69	24.70	25.14	23.33	24.36	23.76	24.77	25.21
	6H	23.60	24.50	24.05	24.94	25.39	23.80	24.70	24.26	25.15	25.60
	8H	23.70	24.54	24.16	24.98	25.45	23.99	24.83	24.45	25.27	25.74
	12H	23.75	24.50	24.23	24.98	25.45	24.12	24.87	24.60	25.35	25.82
8H	4H	23.51	24.35	23.97	24.80	25.26	23.57	24.42	24.03	24.86	25.32
	6H	23.96	24.65	24.45	25.14	25.62	24.16	24.86	24.66	25.35	25.83
	8H	24.12	24.75	24.63	25.26	25.74	24.42	25.05	24.93	25.56	26.04
	12H	24.22	24.78	24.73	25.27	25.83	24.62	25.17	25.13	25.66	26.23
12H	4H	23.53	24.29	24.01	24.77	25.23	23.59	24.35	24.07	24.82	25.29
	6H	24.00	24.63	24.51	25.14	25.62	24.20	24.83	24.71	25.34	25.82
	8H	24.23	24.78	24.73	25.27	25.83	24.52	25.07	25.02	25.56	26.12

END OF REPORT