

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: P1036300

Luminaire Tested: SQ4R-PR1-075D-B2750-1D-UNV-W2A_2700K

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-2019
Report Number: P1036300
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P564154)
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4R-PR1-075D-B2750-1D-UNV-W2A_2700K
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, DIRECT ONLY 750 LUMENS PER FOOT DOV

Light Source: -
Ballast/Driver: -

Summary

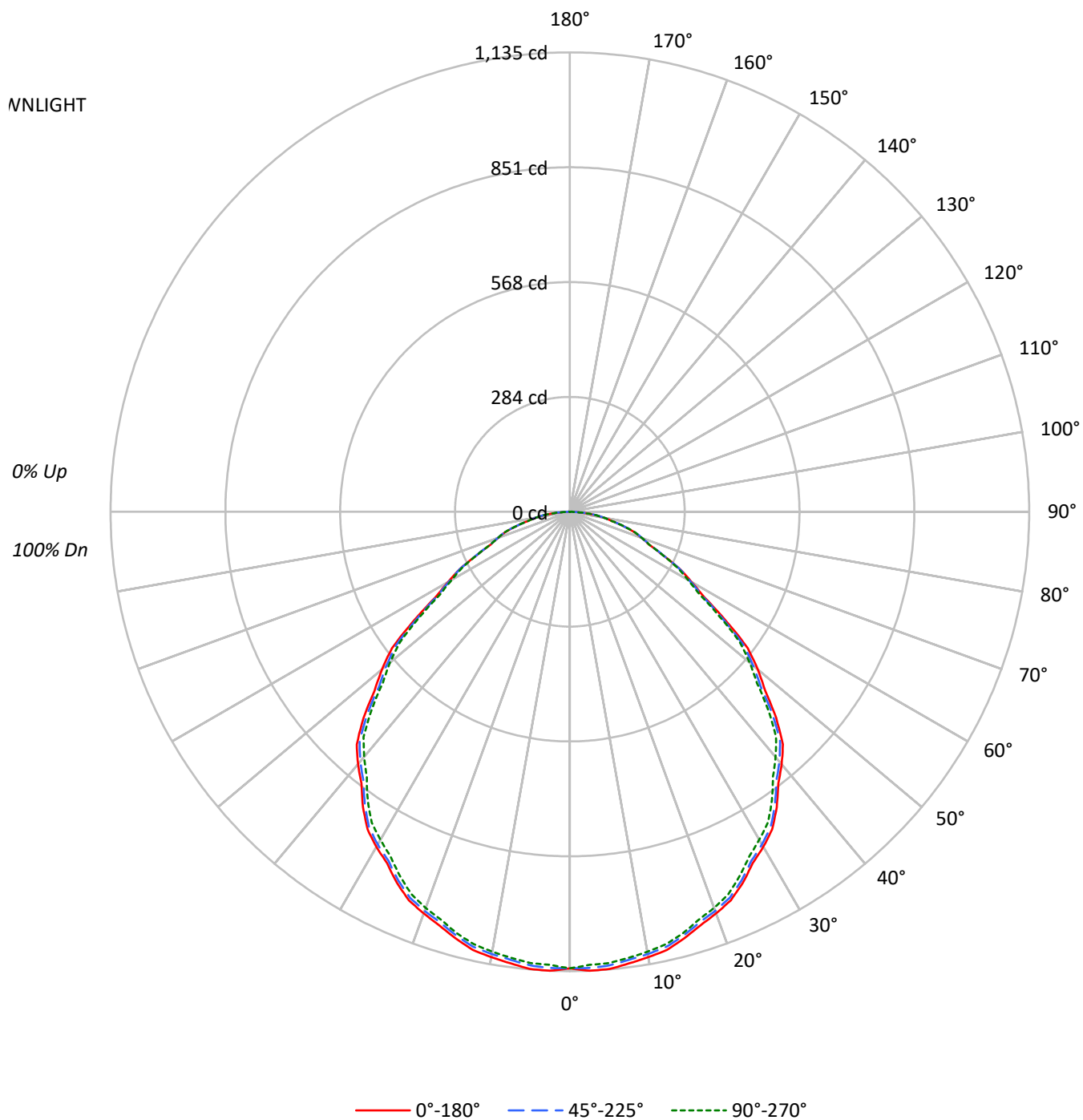
Lumens per Lamp: N/A
Luminaire Lumens: 2820.0 lumens
Efficiency: N/A
Efficacy: 110.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 25.6
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	30	10	50	30	10
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	35	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°	10407	10407	10407
5°	10502	10421	10366
10°	10467	10395	10340
15°	10423	10357	10301
20°	10370	10302	10227
25°	10296	10228	10109
30°	10185	10113	9968
35°	10035	9948	9806
40°	9805	9700	9526
45°	9407	9242	9051
50°	8702	8493	8325
55°	7594	7425	7269
60°	6401	6348	6220
65°	5536	5558	5515
70°	5082	5109	5109
75°	4884	4884	4919
80°	4591	4644	4591
85°	3705	4118	4118

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9407 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.7	3.8
10°-20°	305.2	10.8
20°-30°	460.4	16.3
30°-40°	548.5	19.5
40°-50°	540.8	19.2
50°-60°	413.3	14.7
60°-70°	255.7	9.1
70°-80°	145.3	5.2
80°-90°	44.2	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°	872.2	30.9
0°-40°	1420.8	50.4
0°-60°	2374.8	84.2
0°-90°	2820.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2820.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1128	1128	1128	1128	1128	
5°	1134	1122	1125	1121	1119	108
15°	1091	1080	1084	1080	1078	308
25°	1011	999	1005	994	993	465
35°	891	880	883	872	871	556
45°	721	712	708	696	694	552
55°	472	465	462	454	452	423
65°	254	252	255	253	253	257
75°	137	137	137	138	138	145
85°	35	37	39	39	39	42
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1128.0	1128.0	1128.0	1128.0	1128.0
2.5°	1135.1	1125.2	1128.0	1125.7	1120.3
5°	1133.9	1121.5	1125.2	1121.1	1119.3
7.5°	1125.2	1112.9	1116.6	1112.6	1111.6
10°	1117.3	1105.9	1109.6	1105.7	1103.7
12.5°	1108.8	1096.7	1101.1	1096.4	1094.5
15°	1091.2	1079.8	1084.3	1080.5	1078.4
17.5°	1071.7	1059.5	1064.2	1059.7	1057.2
20°	1056.2	1044.8	1049.3	1042.6	1041.6
22.5°	1039.1	1027.7	1032.2	1023.2	1023.0
25°	1011.4	999.1	1004.7	994.0	993.0
27.5°	978.6	967.2	971.8	960.9	959.9
30°	956.0	944.6	949.3	937.6	935.7
32.5°	930.4	919.8	923.7	912.0	910.8
35°	891.0	880.5	883.2	871.6	870.6
37.5°	846.1	836.6	838.1	825.2	824.4
40°	814.1	804.8	805.4	791.9	790.9
42.5°	779.3	769.8	768.9	755.4	754.4
45°	721.0	711.5	708.3	695.6	693.7
47.5°	654.5	645.0	639.1	628.7	627.4
50°	606.3	596.8	591.7	582.9	580.0
52.5°	554.2	544.7	540.5	532.4	529.6
55°	472.1	464.6	461.6	453.7	451.9
57.5°	394.3	389.2	388.2	380.7	379.9
60°	346.9	344.0	344.0	337.1	337.1
62.5°	306.5	304.3	305.8	301.3	300.6
65°	253.6	251.7	254.6	252.6	252.6
67.5°	211.9	211.9	213.5	212.7	212.7
70°	188.4	188.4	189.4	189.4	189.4
72.5°	167.5	166.8	169.3	169.2	168.5
75°	137.0	137.0	137.0	138.0	138.0
77.5°	106.7	106.9	107.7	107.5	106.7
80°	86.4	87.4	87.4	86.4	86.4
82.5°	66.3	67.2	67.2	67.0	66.3
85°	35.0	36.8	38.9	38.9	38.9
87.5°	10.0	13.1	15.6	15.6	14.7
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	18.24	19.80	18.61	20.12	20.43	18.07	19.63	18.43	19.95	20.26
	3H	19.58	20.98	19.95	21.31	21.67	19.47	20.88	19.85	21.21	21.57
	4H	20.18	21.50	20.58	21.84	22.22	20.10	21.42	20.50	21.77	22.15
	6H	20.62	21.84	21.04	22.21	22.60	20.56	21.78	20.97	22.15	22.54
	8H	20.81	21.97	21.23	22.36	22.76	20.75	21.91	21.17	22.30	22.70
	12H	20.92	22.03	21.35	22.41	22.84	20.87	21.99	21.30	22.37	22.80
4H	2H	18.71	20.03	19.11	20.38	20.76	18.57	19.89	18.97	20.24	20.62
	3H	20.32	21.41	20.73	21.81	22.21	20.24	21.34	20.65	21.74	22.14
	4H	21.05	22.04	21.48	22.46	22.89	21.01	22.00	21.44	22.41	22.85
	6H	21.64	22.50	22.10	22.94	23.40	21.60	22.46	22.06	22.91	23.36
	8H	21.88	22.69	22.35	23.13	23.60	21.85	22.65	22.31	23.10	23.56
	12H	22.04	22.76	22.52	23.24	23.71	22.02	22.75	22.51	23.22	23.69
8H	4H	21.33	22.13	21.79	22.58	23.04	21.29	22.09	21.75	22.54	23.00
	6H	22.05	22.72	22.55	23.21	23.69	22.02	22.69	22.51	23.18	23.65
	8H	22.39	22.99	22.90	23.50	23.99	22.36	22.96	22.87	23.47	23.95
	12H	22.62	23.16	23.13	23.65	24.21	22.62	23.15	23.12	23.64	24.20
12H	4H	21.36	22.08	21.84	22.56	23.03	21.32	22.04	21.80	22.52	22.99
	6H	22.12	22.72	22.63	23.23	23.72	22.08	22.69	22.59	23.19	23.68
	8H	22.51	23.05	23.02	23.54	24.10	22.48	23.02	22.99	23.51	24.07