

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: P1036306

Luminaire Tested: SQ4R-PR1-075D-B40-1D-UNV

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-2019
Report Number: P1036306
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-B40-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, DIRECT ONLY 750 LUMENS PER FOOT DOV

Light Source: -
Ballast/Driver: -

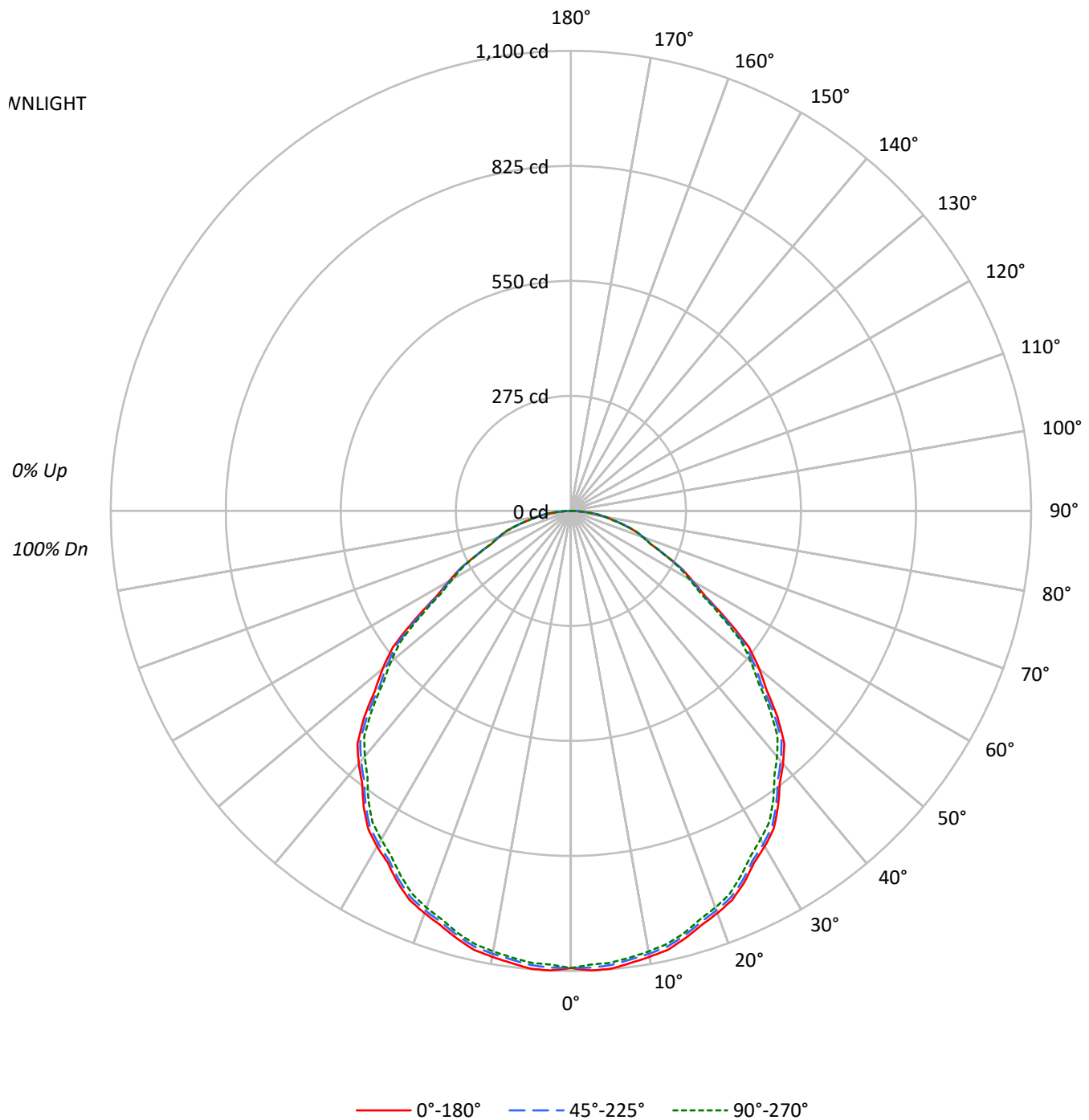
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2732.7 lumens
Efficiency: N/A
Efficacy: 106.7 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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	105	101	98	107	103	99	96	99	96	93		95	92	90		91
2	100	93	86	81	98	91	85	80	87	82	78		84	80	76		81
3	92	82	74	68	90	80	73	68	78	71	66		75	70	65		72
4	85	73	65	58	82	72	64	58	69	63	57		67	61	56		65
5	78	66	57	51	76	65	57	50	63	55	50		61	54	49		59
6	72	59	51	45	70	58	50	44	57	49	44		55	49	44		53
7	67	54	46	40	65	53	45	39	52	44	39		50	44	39		49
8	63	49	41	35	61	49	41	35	47	40	35		46	40	35		45
9	58	45	37	32	57	45	37	32	44	37	32		43	36	32		42
10	55	42	34	29	54	41	34	29	40	34	29		40	33	29		39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10085	10085	10085
5°	10176	10099	10046
10°	10143	10074	10021
15°	10100	10037	9981
20°	10049	9983	9911
25°	9977	9911	9796
30°	9869	9800	9661
35°	9725	9640	9503
40°	9501	9400	9230
45°	9117	8956	8771
50°	8433	8230	8068
55°	7359	7195	7044
60°	6204	6152	6028
65°	5366	5386	5344
70°	4926	4950	4950
75°	4734	4734	4766
80°	4447	4500	4447
85°	3589	3991	3991

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9117 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.4	3.8
10°-20°	295.8	10.8
20°-30°	446.1	16.3
30°-40°	531.5	19.5
40°-50°	524.0	19.2
50°-60°	400.5	14.7
60°-70°	247.8	9.1
70°-80°	140.8	5.2
80°-90°	42.8	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°	845.3	30.9
0°-40°	1376.8	50.4
0°-60°	2301.4	84.2
0°-90°	2732.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2732.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1093	1093	1093	1093	1093	
5°	1099	1087	1090	1086	1085	104
15°	1057	1046	1051	1047	1045	298
25°	980	968	974	963	962	451
35°	863	853	856	845	844	539
45°	699	690	686	674	672	535
55°	458	450	447	440	438	410
65°	246	244	247	245	245	249
75°	133	133	133	134	134	140
85°	34	36	38	38	38	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1093.1	1093.1	1093.1	1093.1	1093.1
2.5°	1100.0	1090.4	1093.1	1090.9	1085.6
5°	1098.8	1086.8	1090.4	1086.4	1084.7
7.5°	1090.4	1078.5	1082.1	1078.2	1077.2
10°	1082.7	1071.7	1075.3	1071.5	1069.6
12.5°	1074.5	1062.8	1067.0	1062.5	1060.6
15°	1057.4	1046.4	1050.8	1047.1	1045.0
17.5°	1038.5	1026.7	1031.3	1026.9	1024.5
20°	1023.5	1012.5	1016.8	1010.3	1009.4
22.5°	1007.0	995.9	1000.3	991.5	991.4
25°	980.1	968.2	973.6	963.2	962.3
27.5°	948.3	937.3	941.7	931.2	930.2
30°	926.4	915.4	919.9	908.6	906.8
32.5°	901.6	891.3	895.1	883.8	882.6
35°	863.4	853.3	855.9	844.6	843.7
37.5°	819.9	810.7	812.2	799.7	798.9
40°	788.9	779.9	780.5	767.4	766.4
42.5°	755.2	746.0	745.1	732.0	731.1
45°	698.7	689.5	686.4	674.1	672.2
47.5°	634.3	625.0	619.3	609.2	608.0
50°	587.5	578.3	573.4	564.9	562.1
52.5°	537.1	527.8	523.8	515.9	513.2
55°	457.5	450.2	447.3	439.7	437.9
57.5°	382.1	377.2	376.2	368.9	368.1
60°	336.2	333.4	333.4	326.7	326.7
62.5°	297.0	294.9	296.3	292.0	291.3
65°	245.8	243.9	246.7	244.8	244.8
67.5°	205.3	205.3	206.9	206.1	206.1
70°	182.6	182.6	183.5	183.5	183.5
72.5°	162.3	161.6	164.1	164.0	163.3
75°	132.8	132.8	132.8	133.7	133.7
77.5°	103.4	103.6	104.4	104.2	103.4
80°	83.7	84.7	84.7	83.7	83.7
82.5°	64.2	65.1	65.1	64.9	64.2
85°	33.9	35.7	37.7	37.7	37.7
87.5°	9.7	12.7	15.1	15.1	14.2
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	18.13	19.70	18.50	20.01	20.32	17.96	19.52	18.33	19.84	20.15
	3H	19.47	20.87	19.84	21.20	21.56	19.36	20.77	19.74	21.10	21.46
	4H	20.07	21.39	20.47	21.74	22.11	20.00	21.31	20.39	21.66	22.04
	6H	20.52	21.74	20.93	22.10	22.49	20.45	21.67	20.86	22.04	22.43
	8H	20.70	21.86	21.12	22.25	22.65	20.64	21.80	21.06	22.19	22.59
	12H	20.81	21.92	21.24	22.30	22.73	20.76	21.88	21.19	22.26	22.69
4H	2H	18.61	19.92	19.01	20.27	20.65	18.46	19.78	18.86	20.13	20.51
	3H	20.21	21.30	20.62	21.70	22.10	20.13	21.23	20.54	21.63	22.03
	4H	20.94	21.93	21.38	22.35	22.78	20.90	21.89	21.33	22.30	22.74
	6H	21.53	22.39	21.99	22.84	23.29	21.49	22.35	21.95	22.80	23.25
	8H	21.78	22.58	22.24	23.02	23.49	21.74	22.54	22.20	22.99	23.45
	12H	21.93	22.65	22.41	23.13	23.60	21.91	22.64	22.40	23.11	23.58
8H	4H	21.22	22.03	21.68	22.47	22.93	21.18	21.98	21.64	22.43	22.89
	6H	21.95	22.62	22.44	23.11	23.58	21.91	22.58	22.40	23.07	23.55
	8H	22.28	22.88	22.79	23.39	23.88	22.25	22.85	22.76	23.36	23.84
	12H	22.51	23.05	23.02	23.54	24.10	22.51	23.04	23.01	23.53	24.09
12H	4H	21.25	21.97	21.73	22.45	22.92	21.21	21.93	21.69	22.41	22.88
	6H	22.01	22.61	22.52	23.12	23.61	21.97	22.58	22.49	23.09	23.57
	8H	22.41	22.94	22.91	23.43	23.99	22.37	22.91	22.88	23.40	23.96