

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:

Luminaire Tested: SQ4-PR1-075U-125D-927-1D-UNV-STD-W-6

Issue Date: 8/1/2024

Test Information

Test Method: LM-79-2019
Report Number:
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22)
Test Lab: INNOVATION CENTER
Issue Date: 8/1/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-PR1-075U-125D-927-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

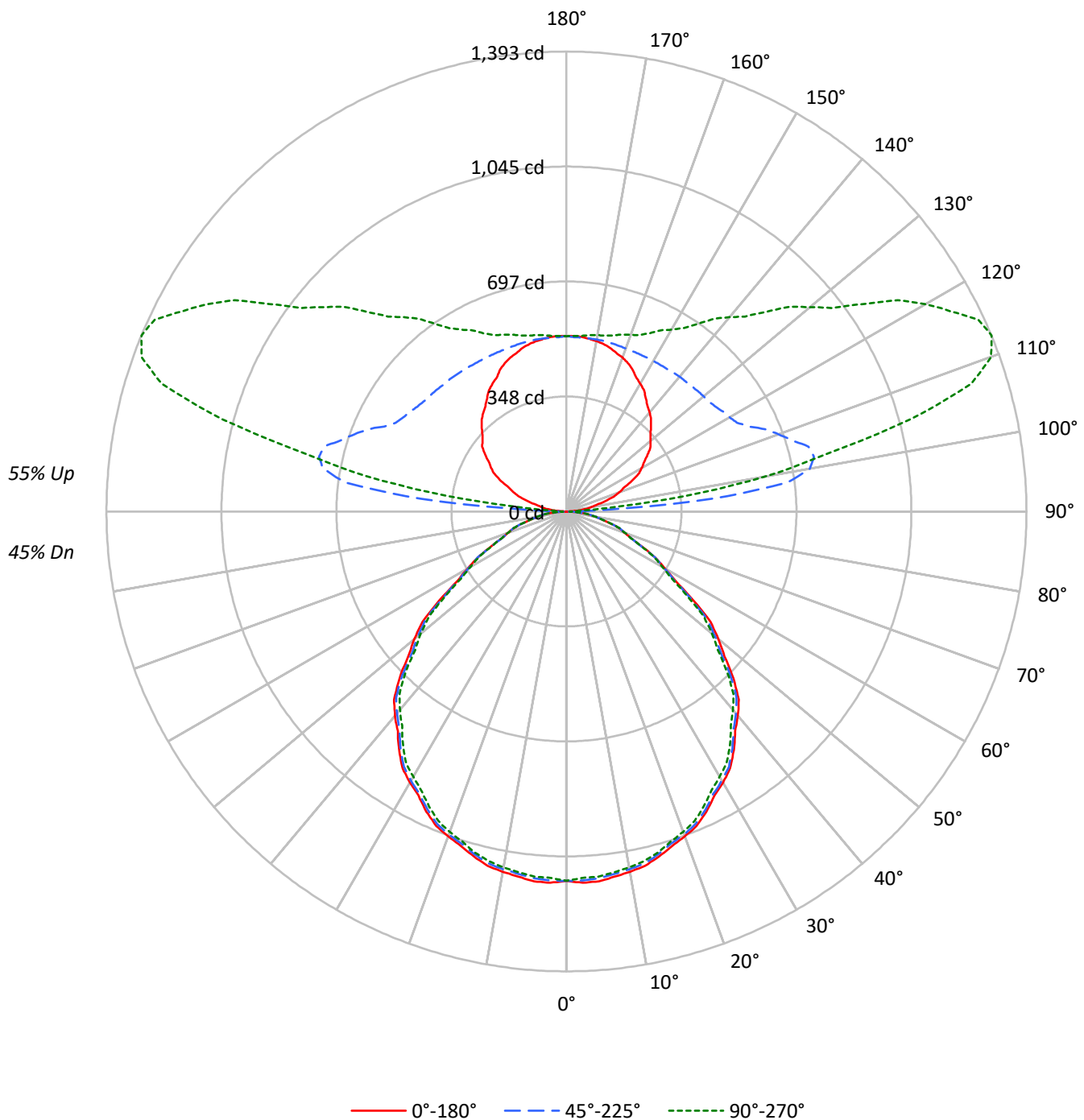
Lumens per Lamp: N/A
Luminaire Lumens: 6255.8 lumens
Efficiency: N/A
Efficacy: 64.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 97.3
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				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51
1	97	93	89	85	89	85	82	79	71	69	66	58	56	55	46	45	44
2	88	81	75	70	81	75	70	65	62	59	55	51	48	46	41	39	37
3	81	72	64	59	74	66	60	55	55	51	47	45	42	39	36	34	32
4	74	63	56	50	68	59	52	47	49	44	40	40	37	34	32	30	28
5	68	57	49	43	62	52	45	40	44	39	35	36	32	29	29	26	24
6	63	51	43	37	57	47	40	35	40	34	30	33	29	26	27	24	21
7	58	46	38	33	53	42	36	31	36	31	27	30	26	23	24	21	19
8	54	42	34	29	49	39	32	27	33	27	24	27	23	20	22	19	17
9	50	38	31	26	46	35	29	24	30	25	21	25	21	18	21	18	15
10	47	35	28	23	43	32	26	22	28	23	19	23	19	17	19	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6881	6881	6881
5°	6943	6889	6853
10°	6921	6873	6837
15°	6891	6847	6811
20°	6856	6812	6762
25°	6808	6762	6684
30°	6734	6686	6590
35°	6635	6577	6483
40°	6484	6414	6297
45°	6219	6110	5985
50°	5754	5615	5505
55°	5022	4908	4805
60°	4232	4196	4114
65°	3660	3675	3646
70°	3361	3379	3379
75°	3230	3230	3251
80°	3039	3071	3039
85°	2449	2717	2717

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6219 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.8	1.7
10°-20°	302.7	4.8
20°-30°	456.5	7.3
30°-40°	544.0	8.7
40°-50°	536.3	8.6
50°-60°	409.9	6.6
60°-70°	253.6	4.1
70°-80°	144.1	2.3
80°-90°	45.2	0.7
90°-100°	250.3	4.0
100°-110°	688.7	11.0
110°-120°	710.9	11.4
120°-130°	569.6	9.1
130°-140°	447.4	7.2
140°-150°	342.8	5.5
150°-160°	246.5	3.9
160°-170°	150.7	2.4
170°-180°	50.8	0.8
0°-30°	865.0	13.8
0°-40°	1409.0	22.5
0°-60°	2355.1	37.6
0°-90°	2798.0	44.7
90°-120°	1650.0	26.4
90°-150°	3009.8	48.1
90°-180°	3458.0	55.3
0°-180°	6255.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1119	1119	1119	1119	1119	
5°	1124	1112	1116	1112	1110	107
15°	1082	1071	1075	1072	1070	305
25°	1003	991	996	986	985	462
35°	884	873	876	864	863	551
45°	715	706	702	690	688	548
55°	468	461	458	450	448	420
65°	252	250	252	250	250	255
75°	136	136	136	137	137	143
85°	35	37	38	38	38	40
90°	1	4	8	10	10	4
95°	37	137	443	189	121	39
105°	123	189	759	1156	1078	130
115°	218	265	609	1212	1376	215
125°	300	342	552	934	1094	268
135°	362	402	536	756	855	280
145°	419	448	528	644	693	263
155°	474	490	525	579	595	218
165°	513	519	527	549	552	144
175°	531	532	528	535	534	50
180°	531	531	531	531	531	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1118.7	1118.7	1118.7	1118.7	1118.7
2.5°	1125.6	1115.8	1118.7	1116.3	1111.0
5°	1124.5	1112.2	1115.8	1111.9	1110.0
7.5°	1115.8	1103.8	1107.3	1103.5	1102.3
10°	1108.1	1096.8	1100.4	1096.5	1094.6
12.5°	1099.6	1087.6	1091.9	1087.3	1085.4
15°	1082.1	1070.8	1075.3	1071.5	1069.6
17.5°	1062.8	1050.8	1055.3	1050.8	1048.4
20°	1047.4	1036.1	1040.7	1033.9	1033.0
22.5°	1030.4	1019.1	1023.7	1014.6	1014.5
25°	1003.1	990.8	996.3	985.7	984.8
27.5°	970.5	959.2	963.8	952.9	951.8
30°	948.2	936.9	941.4	929.8	927.9
32.5°	922.7	912.2	916.0	904.4	903.3
35°	883.6	873.2	875.9	864.3	863.4
37.5°	839.1	829.7	831.2	818.4	817.5
40°	807.5	798.1	798.8	785.3	784.3
42.5°	772.8	763.4	762.6	749.1	748.1
45°	715.0	705.6	702.4	689.9	688.0
47.5°	649.1	639.6	633.8	623.6	622.3
50°	601.3	591.8	586.8	578.1	575.3
52.5°	549.6	540.2	535.9	528.0	525.1
55°	468.3	460.8	457.7	449.9	448.1
57.5°	391.0	385.9	385.0	377.5	376.8
60°	344.0	341.2	341.1	334.4	334.4
62.5°	303.9	301.8	303.3	298.9	298.1
65°	251.5	249.6	252.5	250.5	250.5
67.5°	210.1	210.1	211.8	211.0	211.0
70°	186.9	186.9	187.9	187.9	187.9
72.5°	166.1	165.4	167.9	167.8	167.1
75°	135.9	135.9	135.9	136.8	136.8
77.5°	105.8	106.0	106.8	106.6	105.8
80°	85.8	86.7	86.7	85.8	85.8
82.5°	65.7	66.7	66.7	66.5	65.7
85°	34.7	36.6	38.5	38.5	38.5
87.5°	10.2	13.9	17.0	17.4	16.7
90°	1.1	4.4	7.9	10.2	10.2
92.5°	15.6	66.6	115.4	44.3	36.4
95°	37.3	136.6	442.7	189.3	120.8
97.5°	60.8	151.5	675.6	520.5	367.3
100°	77.9	160.7	748.7	755.7	616.6
102.5°	94.2	171.7	767.7	937.6	809.9
105°	123.1	189.3	758.9	1155.8	1078.5
107.5°	150.7	211.2	715.8	1262.6	1285.6
110°	170.5	225.7	683.2	1289.2	1368.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	188.6	242.0	650.7	1272.1	1393.1
115°	218.0	265.4	608.7	1212.1	1375.5
117.5°	246.0	289.7	582.0	1127.9	1312.7
120°	263.1	305.1	570.3	1064.8	1255.8
122.5°	278.5	320.4	562.2	1009.4	1190.8
125°	300.4	342.4	552.2	934.2	1094.3
127.5°	321.2	361.2	545.7	871.4	1011.9
130°	332.0	372.9	542.1	834.1	962.2
132.5°	344.7	385.5	539.4	801.3	917.0
135°	362.5	402.3	536.4	755.5	854.9
137.5°	379.2	416.1	533.9	718.5	800.5
140°	391.9	426.1	533.0	694.0	767.9
142.5°	402.7	434.3	531.2	672.0	735.4
145°	419.0	447.7	528.5	643.7	693.4
147.5°	436.4	461.1	527.2	618.6	658.4
150°	447.2	469.3	526.3	604.9	635.8
152.5°	457.1	477.5	525.4	593.0	618.6
155°	474.3	489.8	525.1	578.6	595.1
157.5°	486.7	499.3	525.1	566.7	578.2
160°	495.8	505.7	525.1	560.3	569.2
162.5°	503.0	511.2	526.0	554.9	561.9
165°	512.7	519.3	527.4	548.9	552.2
167.5°	519.5	524.6	528.5	543.9	544.8
170°	524.0	527.3	528.5	542.1	542.1
172.5°	527.6	529.2	528.5	539.3	538.5
175°	530.8	531.9	528.5	535.3	534.2
177.5°	531.7	531.7	528.1	533.4	531.7
180°	530.8	530.8	530.8	530.8	530.8

(END OF REPORT)