

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

(formerly Eaton)

Brand: CORELITE

Report Number: P565026

Luminaire Tested: **SQ4-PW1-125U-075D-830-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P565026
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-125U-075D-830-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

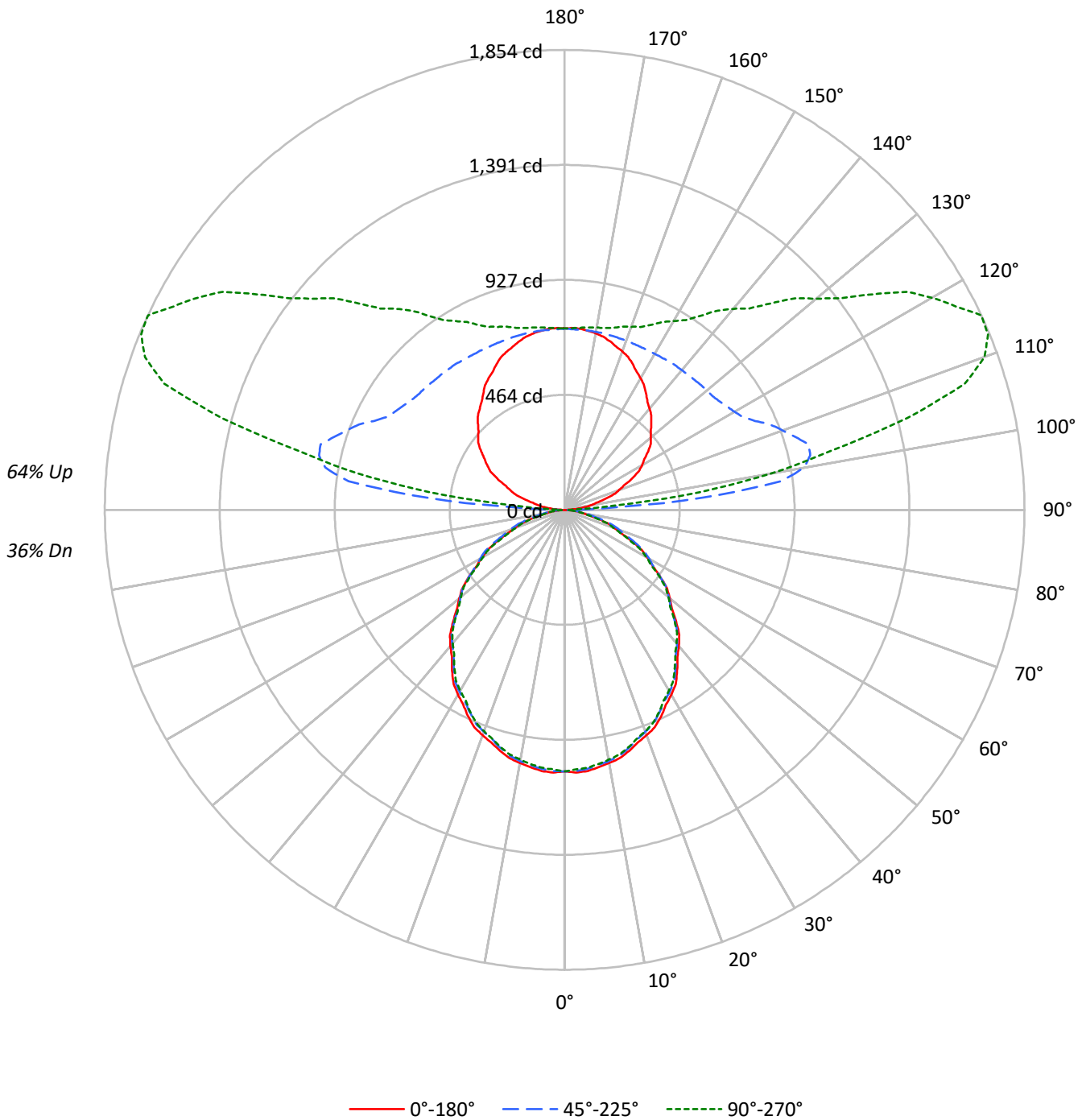
Lumens per Lamp: N/A
Luminaire Lumens: 7402.8 lumens
Efficiency: N/A
Efficacy: 132.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 55.7
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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	36
1	95	91	87	83	86	82	79	76	66	64	62	52	50	49	39	38	37	31
2	86	79	73	68	78	72	67	62	58	55	52	46	43	41	34	32	31	26
3	79	70	62	57	71	63	57	52	51	47	43	40	37	35	30	28	27	22
4	72	61	54	48	65	56	49	44	46	41	37	36	33	30	27	25	23	19
5	66	55	47	41	60	50	43	38	41	36	32	32	29	26	24	22	20	16
6	61	49	41	35	55	45	38	33	37	31	28	29	25	23	22	19	18	14
7	56	44	36	31	51	40	34	29	33	28	24	26	23	20	20	17	16	13
8	52	40	32	27	47	37	30	25	30	25	21	24	20	18	18	16	14	11
9	48	36	29	24	44	33	27	22	28	23	19	22	18	16	17	14	13	10
10	45	33	26	22	41	31	24	20	25	20	17	20	17	14	16	13	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9726	9726	9726
5°	9789	9712	9669
10°	9711	9633	9581
15°	9608	9502	9467
20°	9493	9348	9329
25°	9362	9190	9163
30°	9163	9025	8965
35°	8903	8777	8726
40°	8625	8491	8457
45°	8289	8181	8144
50°	7946	7879	7825
55°	7575	7575	7456
60°	7113	7250	6993
65°	6510	6833	6346
70°	5738	6288	5587
75°	4902	5629	4770
80°	3799	4739	3852
85°	2456	3642	3250



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.3	1.3
10°-20°	280.3	3.8
20°-30°	415.7	5.6
30°-40°	486.5	6.6
40°-50°	484.3	6.5
50°-60°	418.2	5.6
60°-70°	301.0	4.1
70°-80°	157.9	2.1
80°-90°	40.9	0.6
90°-100°	342.0	4.6
100°-110°	921.1	12.4
110°-120°	966.7	13.1
120°-130°	784.4	10.6
130°-140°	615.2	8.3
140°-150°	472.3	6.4
150°-160°	339.6	4.6
160°-170°	207.5	2.8
170°-180°	70.0	0.9
0°-30°	795.3	10.7
0°-40°	1281.7	17.3
0°-60°	2184.2	29.5
0°-90°	2684.0	36.3
90°-120°	2229.8	30.1
90°-150°	4101.8	55.4
90°-180°	4719.0	63.7
0°-180°	7402.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1054	1054	1054	1054	1054	
5°	1057	1045	1049	1046	1044	100
15°	1006	993	995	993	991	284
25°	920	904	903	897	900	423
35°	790	780	779	772	775	494
45°	635	630	627	625	624	490
55°	471	470	471	464	464	420
65°	298	307	313	301	291	295
75°	138	150	158	147	134	147
85°	23	30	34	32	31	31
90°	2	6	11	12	12	4
95°	52	186	561	287	198	54
105°	170	265	1019	1524	1430	179
115°	301	368	848	1639	1854	296
125°	411	472	762	1287	1515	367
135°	494	552	740	1039	1176	382
145°	572	616	731	888	954	359
155°	649	673	724	797	822	299
165°	704	712	727	756	760	199
175°	732	731	728	738	737	70
180°	731	731	731	731	731	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1054.2	1054.2	1054.2	1054.2	1054.2
2.5°	1060.2	1051.5	1054.2	1051.9	1046.8
5°	1057.0	1045.2	1048.7	1045.8	1044.0
7.5°	1046.3	1035.4	1037.9	1034.9	1033.8
10°	1036.6	1025.7	1028.2	1024.5	1022.7
12.5°	1025.4	1013.8	1016.3	1012.6	1011.5
15°	1005.9	993.2	994.8	992.9	991.1
17.5°	983.3	970.4	970.6	967.7	967.3
20°	966.9	953.3	952.1	948.4	950.2
22.5°	949.1	934.7	933.5	928.3	930.9
25°	919.6	904.1	902.8	897.3	900.1
27.5°	885.4	870.1	870.1	862.4	865.3
30°	860.1	845.6	847.1	837.9	841.5
32.5°	833.4	820.3	821.1	811.9	815.5
35°	790.5	779.6	779.3	771.9	774.7
37.5°	746.6	737.0	735.5	731.2	731.9
40°	716.1	708.0	705.0	702.2	702.2
42.5°	684.2	676.7	673.8	671.7	671.0
45°	635.3	629.9	627.0	625.1	624.2
47.5°	587.0	581.9	579.4	578.1	577.2
50°	553.6	550.0	548.9	546.1	545.2
52.5°	520.2	518.0	517.0	513.4	512.5
55°	470.9	470.0	470.9	464.4	463.5
57.5°	419.7	421.1	424.1	415.3	413.2
60°	385.5	389.1	392.9	382.6	379.0
62.5°	350.5	356.4	361.7	349.9	344.8
65°	298.2	307.2	313.0	300.7	290.7
67.5°	247.6	258.9	265.8	252.6	241.3
70°	212.7	225.4	233.1	219.8	207.1
72.5°	182.2	196.4	202.7	190.1	177.4
75°	137.5	150.2	157.9	147.4	133.8
77.5°	97.5	109.5	115.9	106.7	95.5
80°	71.5	84.2	89.2	81.5	72.5
82.5°	50.7	61.3	64.6	60.0	53.9
85°	23.2	30.5	34.4	32.5	30.7
87.5°	6.3	12.1	16.4	16.6	17.3
90°	1.9	5.5	11.2	12.1	12.1
92.5°	22.7	80.3	158.7	76.4	53.1
95°	52.1	186.0	560.6	286.7	198.3
97.5°	83.2	212.9	879.2	734.5	553.9
100°	107.1	223.6	980.5	1025.9	851.1
102.5°	130.2	238.7	1014.0	1244.1	1100.6
105°	170.4	265.1	1018.7	1524.1	1430.3
107.5°	208.4	292.9	975.3	1667.9	1692.1
110°	233.7	313.8	935.8	1712.6	1800.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	260.5	334.8	897.8	1702.7	1847.8
115°	300.8	368.1	848.3	1639.1	1854.0
117.5°	337.5	400.6	809.9	1537.6	1776.9
120°	361.3	422.3	790.6	1464.7	1710.6
122.5°	382.2	442.4	776.4	1390.2	1635.3
125°	410.6	471.6	761.7	1287.4	1515.0
127.5°	438.0	498.1	752.4	1196.7	1399.9
130°	454.4	514.5	748.7	1144.7	1323.2
132.5°	470.8	530.2	744.9	1099.0	1262.9
135°	494.5	551.8	740.3	1038.6	1176.1
137.5°	517.0	572.0	737.9	987.4	1100.3
140°	532.6	585.4	735.6	955.8	1057.8
142.5°	549.0	598.2	734.1	926.4	1012.4
145°	571.7	616.4	731.0	888.0	953.5
147.5°	596.3	635.1	727.8	855.6	907.1
150°	612.7	646.4	726.3	835.3	878.1
152.5°	627.6	656.9	725.6	818.7	853.5
155°	649.0	672.7	724.4	796.7	822.2
157.5°	667.8	686.2	724.6	781.3	798.4
160°	679.8	695.2	725.4	772.2	785.0
162.5°	690.2	702.7	726.1	764.7	773.8
165°	704.0	712.2	727.2	756.2	759.8
167.5°	715.1	719.9	728.2	749.6	751.1
170°	722.6	724.4	728.2	745.9	745.9
172.5°	727.1	727.4	728.9	742.1	742.1
175°	731.9	731.0	728.2	738.4	736.6
177.5°	733.9	732.5	728.7	734.7	733.2
180°	731.0	731.0	731.0	731.0	731.0

(END OF REPORT)