

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: P563682

Luminaire Tested: **SQ4-PP3-125U-075D-830-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563682
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-125U-075D-830-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

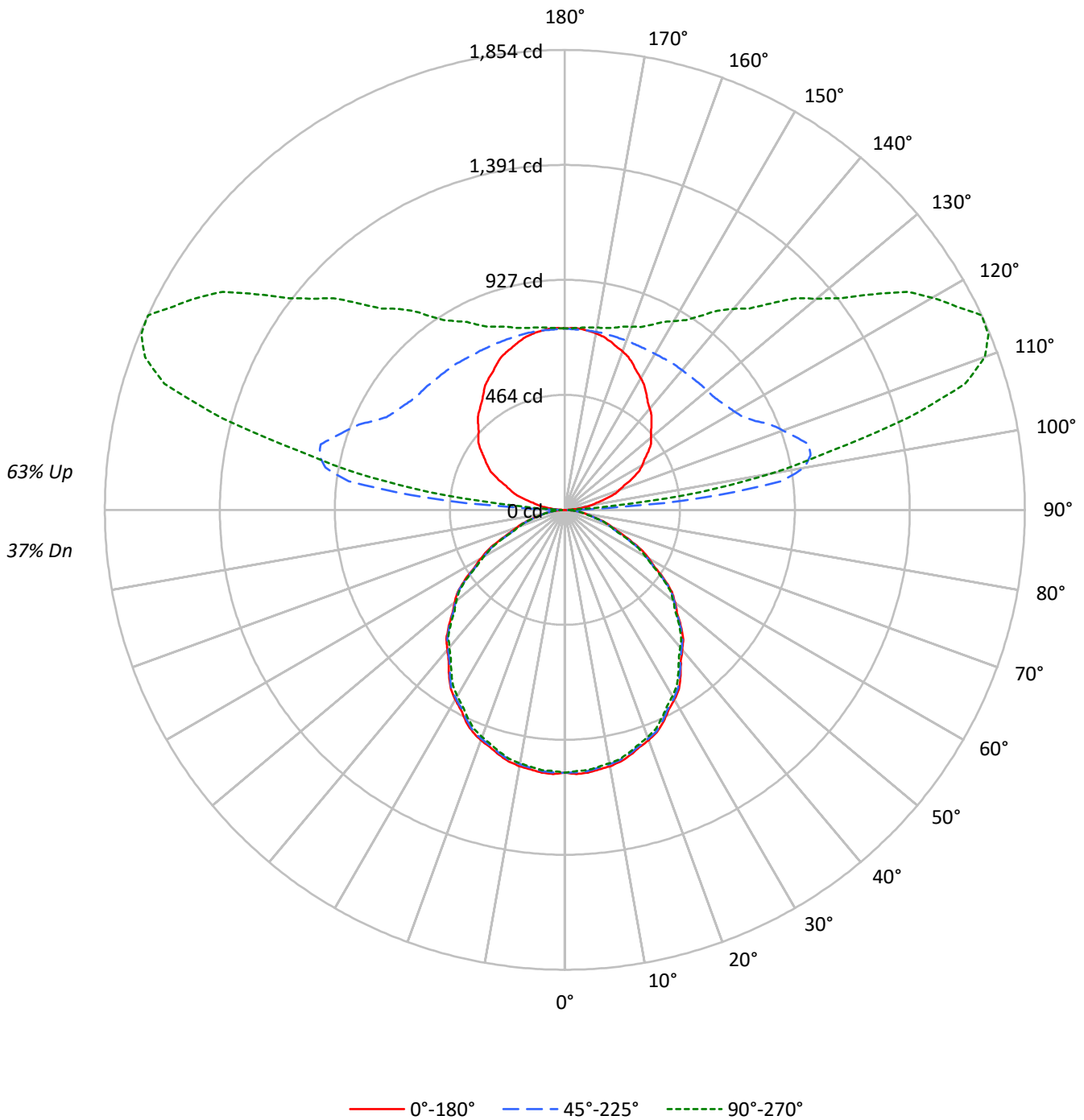
Lumens per Lamp: N/A
Luminaire Lumens: 7432.4 lumens
Efficiency: N/A
Efficacy: 133.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

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	37
1	95	91	87	84	86	82	79	76	67	64	62	52	51	49	39	38	37	31
2	87	79	73	68	78	72	67	63	59	55	52	46	44	41	34	33	32	26
3	79	70	63	57	71	64	57	53	52	47	44	41	38	35	31	29	27	22
4	72	62	54	48	65	56	50	45	46	41	37	36	33	30	27	25	23	19
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	22	20	17
6	61	49	41	36	55	45	38	33	37	32	28	29	26	23	22	20	18	15
7	56	44	37	31	51	41	34	29	33	28	24	27	23	20	20	18	16	13
8	52	40	33	27	47	37	30	26	30	25	22	24	21	18	19	16	14	12
9	48	37	29	24	44	34	27	23	28	23	19	22	19	16	17	15	13	11
10	45	33	26	22	41	31	24	20	26	21	17	21	17	14	16	13	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9776	9776	9776
5°	9848	9787	9753
10°	9831	9761	9718
15°	9766	9712	9660
20°	9701	9646	9574
25°	9585	9519	9425
30°	9408	9359	9240
35°	9163	9099	8985
40°	8869	8814	8713
45°	8627	8566	8481
50°	8318	8263	8184
55°	7887	7782	7723
60°	7180	6975	6940
65°	6324	6062	6041
70°	5460	5236	5236
75°	4702	4634	4570
80°	4144	4192	4096
85°	3239	3536	3536



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.2	1.3
10°-20°	286.1	3.8
20°-30°	428.5	5.8
30°-40°	502.6	6.8
40°-50°	504.2	6.8
50°-60°	430.1	5.8
60°-70°	280.5	3.8
70°-80°	140.7	1.9
80°-90°	40.7	0.5
90°-100°	342.0	4.6
100°-110°	921.1	12.4
110°-120°	966.7	13.0
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°	814.8	11.0
0°-40°	1317.4	17.7
0°-60°	2251.7	30.3
0°-90°	2713.6	36.5
90°-120°	2229.8	30.0
90°-150°	4101.8	55.2
90°-180°	4719.0	63.5
0°-180°	7432.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1060	1060	1060	1060	1060	
5°	1063	1053	1057	1053	1053	101
15°	1022	1012	1017	1013	1011	288
25°	942	931	935	927	926	433
35°	814	805	808	799	798	508
45°	661	657	656	650	650	509
55°	490	488	484	481	480	436
65°	290	284	278	276	277	289
75°	132	132	130	129	128	143
85°	31	33	33	33	33	36
90°	2	6	11	12	12	5
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°	1059.6	1059.6	1059.6	1059.6	1059.6
2.5°	1066.3	1057.5	1059.6	1058.0	1053.6
5°	1063.3	1053.3	1056.8	1053.1	1053.1
7.5°	1056.0	1045.1	1048.6	1044.9	1044.7
10°	1049.4	1038.5	1041.9	1038.2	1037.3
12.5°	1039.7	1028.8	1033.0	1028.5	1028.4
15°	1022.4	1012.4	1016.8	1013.1	1011.3
17.5°	1002.9	992.0	997.3	992.1	991.4
20°	988.1	977.2	982.5	975.1	975.1
22.5°	970.2	959.3	965.4	955.7	955.7
25°	941.6	930.7	935.1	926.8	925.8
27.5°	907.6	896.9	901.5	892.0	891.9
30°	883.1	873.1	878.5	868.2	867.3
32.5°	856.4	847.1	851.0	840.8	839.9
35°	813.5	805.3	807.9	798.6	797.7
37.5°	768.3	760.0	763.0	755.0	754.6
40°	736.4	731.0	731.8	725.2	723.4
42.5°	706.7	700.5	701.3	694.8	694.4
45°	661.2	656.6	656.5	650.0	650.0
47.5°	612.9	609.4	608.4	603.0	602.9
50°	579.5	576.7	575.7	571.1	570.2
52.5°	544.5	543.3	540.1	536.2	536.0
55°	490.3	488.5	483.8	481.0	480.1
57.5°	431.4	427.8	422.5	418.5	419.2
60°	389.1	385.5	378.0	376.1	376.1
62.5°	348.2	343.9	336.3	333.8	335.2
65°	289.7	284.3	277.7	275.8	276.7
67.5°	236.6	231.7	224.5	224.5	223.8
70°	202.4	199.7	194.1	194.1	194.1
72.5°	172.0	170.7	166.6	166.6	165.9
75°	131.9	131.9	130.0	129.1	128.2
77.5°	98.8	99.2	98.2	97.3	95.6
80°	78.0	79.8	78.9	78.0	77.1
82.5°	58.7	60.5	60.4	58.7	58.5
85°	30.6	33.4	33.4	33.4	33.4
87.5°	8.5	12.2	14.1	14.3	15.1
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)