

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: P563586

Luminaire Tested: **SQ4-PP3-100U-075D-830-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563586
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-PP3-100U-075D-830-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

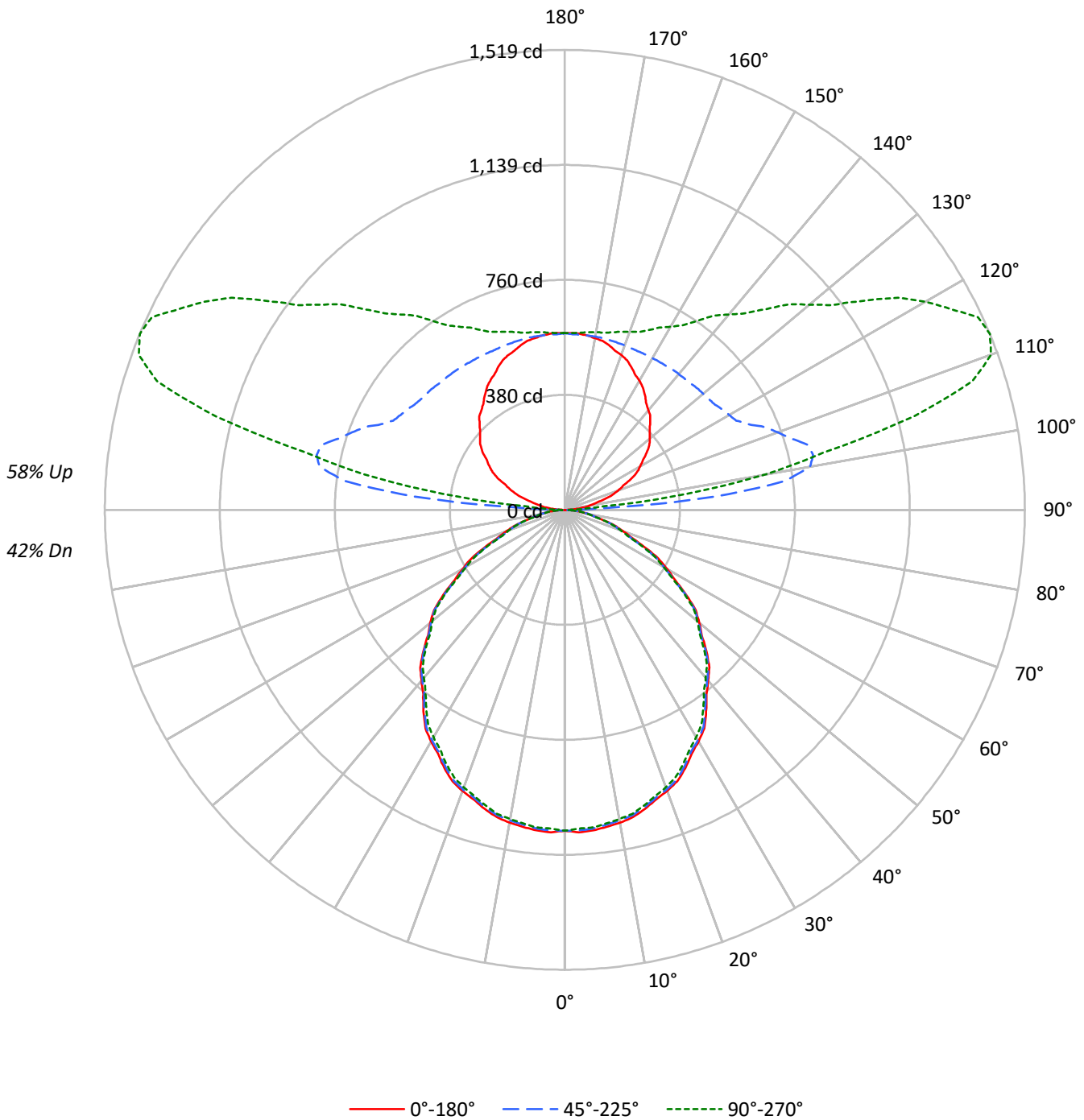
Lumens per Lamp: N/A
Luminaire Lumens: 6504.0 lumens
Efficiency: N/A
Efficacy: 132.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 49.1
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



TEST NUMBER: P563586
CATALOG NUMBER: SQ4-PP3-100U-075D-830-1D-UNV-STD-W-4

Luminous Intensity Polar Plot





TEST NUMBER: P563586

CATALOG NUMBER: SQ4-PP3-100U-075D-830-1D-UNV-STD-W-4

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	105	105	105	105	96	96	96	96	79	79	79	63	63	63	49	49	49	42
1	96	92	88	85	88	84	81	78	69	67	65	56	54	53	43	42	41	35
2	88	80	74	69	80	74	68	64	61	57	54	49	46	44	38	36	35	30
3	80	71	64	58	73	65	59	54	54	49	45	43	40	38	34	32	30	26
4	73	63	55	49	67	57	51	46	48	43	39	39	35	32	30	28	26	22
5	67	56	48	42	61	51	44	39	43	37	33	35	31	28	27	25	23	19
6	62	50	42	36	56	46	39	34	38	33	29	31	27	24	25	22	20	17
7	57	45	37	32	52	42	35	30	35	29	26	29	25	22	23	20	18	15
8	53	41	33	28	48	38	31	26	32	26	23	26	22	19	21	18	16	13
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	16	14	12
10	46	34	27	22	42	32	25	21	27	22	18	22	18	16	18	15	13	11

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



TEST NUMBER: P563586

CATALOG NUMBER: SQ4-PP3-100U-075D-830-1D-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.2	1.5
10°-20°	286.1	4.4
20°-30°	428.5	6.6
30°-40°	502.6	7.7
40°-50°	504.2	7.8
50°-60°	430.1	6.6
60°-70°	280.5	4.3
70°-80°	140.7	2.2
80°-90°	40.2	0.6
90°-100°	273.2	4.2
100°-110°	754.3	11.6
110°-120°	777.9	12.0
120°-130°	625.1	9.6
130°-140°	491.3	7.6
140°-150°	376.8	5.8
150°-160°	270.8	4.2
160°-170°	165.6	2.5
170°-180°	55.8	0.9
0°-30°	814.8	12.5
0°-40°	1317.4	20.3
0°-60°	2251.7	34.6
0°-90°	2713.1	41.7
90°-120°	1805.5	27.8
90°-150°	3298.7	50.7
90°-180°	3791.0	58.3
0°-180°	6504.0	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	4	8	8	9	4
95°	40	148	496	204	133	43
105°	134	207	830	1267	1193	143
115°	241	291	668	1323	1505	237
125°	330	376	606	1025	1203	294
135°	398	441	589	830	936	308
145°	461	493	582	707	761	289
155°	520	537	577	634	654	240
165°	563	570	580	602	607	159
175°	584	584	581	589	587	55
180°	584	584	584	584	584	

TEST NUMBER: P563586

CATALOG NUMBER: SQ4-PP3-100U-075D-830-1D-UNV-STD-W-4

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	11.8	13.4	13.6	14.5
90°	1.9	3.7	7.5	8.4	9.3
92.5°	16.8	69.7	124.7	45.5	35.5
95°	40.1	147.8	495.7	203.8	132.6
97.5°	66.5	165.6	734.3	565.3	409.4
100°	85.9	176.2	822.4	828.2	673.1
102.5°	104.6	188.3	839.6	1023.3	876.2
105°	134.4	207.4	829.9	1267.0	1193.0
107.5°	166.2	231.2	783.6	1384.5	1411.5
110°	188.6	247.0	747.8	1409.7	1497.4



TEST NUMBER: P563586

CATALOG NUMBER: SQ4-PP3-100U-075D-830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	208.7	265.0	714.1	1389.8	1519.0
115°	240.8	291.1	668.4	1323.2	1504.8
117.5°	268.9	318.9	638.3	1229.5	1436.1
120°	287.5	336.8	626.4	1166.0	1374.1
122.5°	305.4	352.5	616.7	1106.8	1303.9
125°	330.5	376.1	605.9	1025.3	1203.3
127.5°	351.8	397.4	599.5	956.4	1110.0
130°	365.9	411.6	596.5	914.3	1053.9
132.5°	379.4	422.8	593.5	878.9	1005.4
135°	397.7	440.6	589.1	830.4	936.3
137.5°	418.2	457.3	586.8	789.8	880.1
140°	429.4	467.8	585.3	762.6	842.0
142.5°	442.1	477.5	583.8	738.5	808.4
145°	461.2	493.1	581.6	707.0	760.8
147.5°	479.5	507.4	579.5	680.4	722.2
150°	492.9	515.7	578.8	664.5	698.3
152.5°	503.4	524.7	578.0	650.9	678.9
155°	520.0	537.3	576.9	634.3	654.4
157.5°	535.3	548.6	577.1	622.2	635.9
160°	544.2	556.1	577.9	615.4	625.5
162.5°	551.7	562.1	578.6	609.4	617.2
165°	562.9	570.2	579.7	602.2	606.8
167.5°	571.5	575.9	580.7	597.9	599.3
170°	576.0	579.6	580.7	595.6	595.6
172.5°	579.7	581.9	580.7	592.6	591.9
175°	583.5	584.4	580.7	589.0	587.2
177.5°	584.9	584.2	580.5	585.7	584.2
180°	583.5	583.5	583.5	583.5	583.5

(END OF REPORT)