

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: P562914

Luminaire Tested: **SQ4-PC3-100U-075D-830-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562914
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, G2-2106-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PC3-100U-075D-830-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

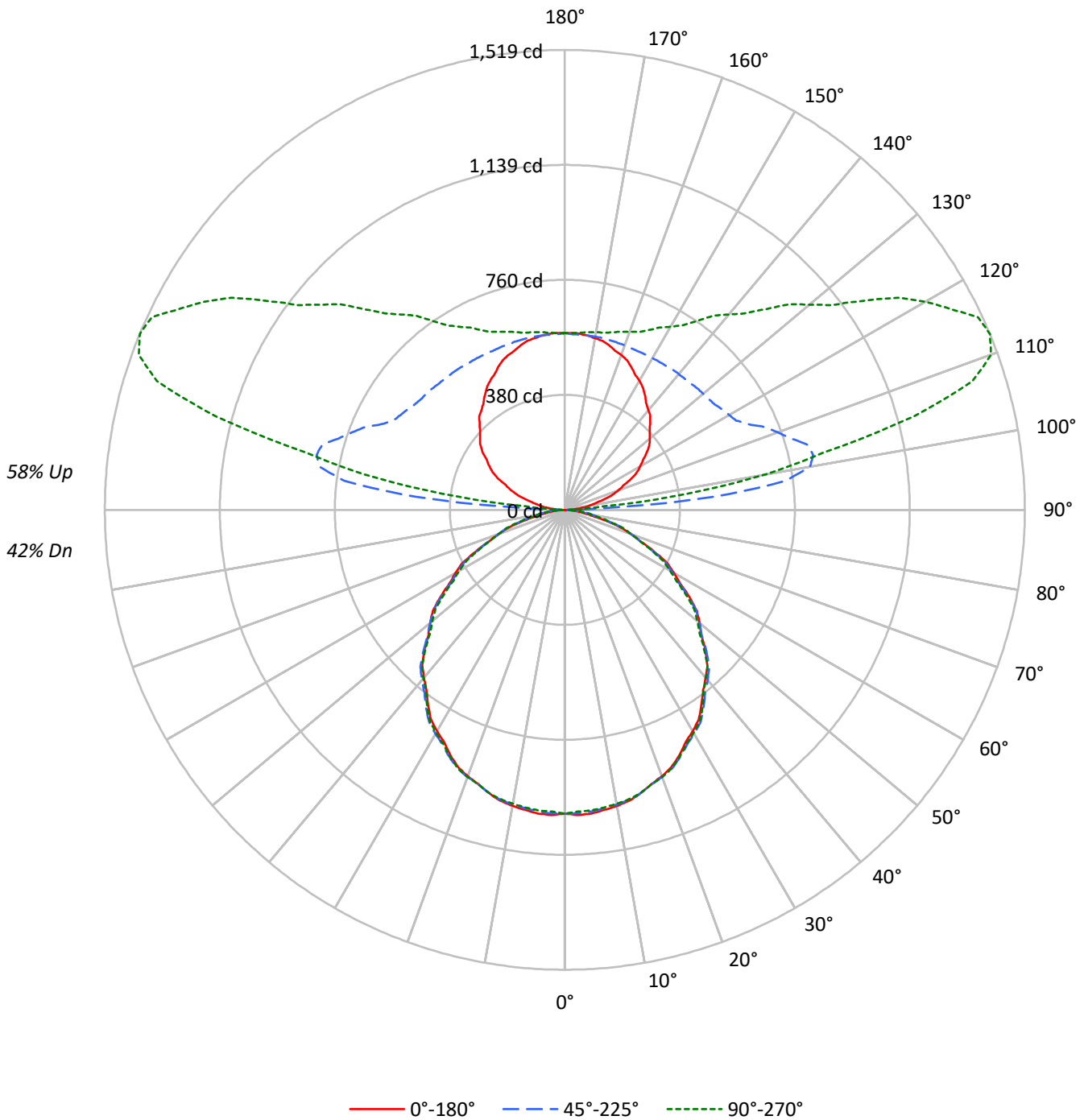
Lumens per Lamp: N/A
Luminaire Lumens: 6529.9 lumens
Efficiency: N/A
Efficacy: 133.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

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



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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	105	105	105	105	96	96	96	96	79	79	79	63	63	63	49	49	49	42
1	96	92	88	85	87	84	81	78	69	67	65	56	54	53	43	42	41	35
2	87	80	74	69	80	73	68	64	61	57	54	49	46	44	38	36	35	30
3	80	70	63	57	72	64	58	53	53	49	45	43	40	37	34	31	30	25
4	73	62	54	48	66	57	50	45	47	42	38	38	35	32	30	27	25	22
5	67	55	47	41	61	51	44	39	42	37	33	34	30	27	27	24	22	19
6	61	50	42	36	56	46	39	33	38	33	29	31	27	24	24	22	19	16
7	57	45	37	31	52	41	34	29	34	29	25	28	24	21	22	19	17	14
8	53	40	33	28	48	37	31	26	31	26	22	26	22	19	20	18	15	13
9	49	37	29	24	45	34	27	23	29	23	20	24	20	17	19	16	14	12
10	46	34	27	22	42	31	25	20	26	21	18	22	18	15	17	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9256	9256	9256
5°	9325	9265	9231
10°	9302	9259	9233
15°	9254	9254	9245
20°	9193	9220	9220
25°	9106	9172	9144
30°	8995	9103	9064
35°	8861	8997	8934
40°	8715	8838	8749
45°	8557	8617	8484
50°	8332	8332	8199
55°	8068	7964	7843
60°	7678	7525	7405
65°	7097	6955	6894
70°	6215	6264	6239
75°	5001	5529	5561
80°	3555	4686	4739
85°	2160	3938	3938



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.9	1.5
10°-20°	272.4	4.2
20°-30°	412.6	6.3
30°-40°	494.6	7.6
40°-50°	504.4	7.7
50°-60°	440.3	6.7
60°-70°	315.2	4.8
70°-80°	162.3	2.5
80°-90°	42.3	0.6
90°-100°	273.2	4.2
100°-110°	754.3	11.6
110°-120°	777.9	11.9
120°-130°	625.1	9.6
130°-140°	491.3	7.5
140°-150°	376.8	5.8
150°-160°	270.8	4.1
160°-170°	165.6	2.5
170°-180°	55.8	0.9
0°-30°	780.0	11.9
0°-40°	1274.6	19.5
0°-60°	2219.2	34.0
0°-90°	2739.0	41.9
90°-120°	1805.5	27.6
90°-150°	3298.7	50.5
90°-180°	3791.0	58.1
0°-180°	6529.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1003	1003	1003	1003	1003	
5°	1007	997	1000	998	997	96
15°	969	961	969	969	968	273
25°	894	888	901	898	898	412
35°	787	785	799	793	793	492
45°	656	654	660	652	650	505
55°	502	495	495	488	488	447
65°	325	318	319	316	316	322
75°	140	147	155	156	156	152
85°	20	31	37	38	37	28
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	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1003.2	1003.2	1003.2	1003.2	1003.2
2.5°	1009.1	1000.4	1003.2	1000.8	997.2
5°	1006.9	996.9	1000.4	997.6	996.7
7.5°	999.6	989.6	994.2	992.4	991.5
10°	992.9	982.9	988.3	986.4	985.5
12.5°	984.0	974.8	980.9	979.0	978.8
15°	968.8	960.6	968.8	968.8	967.9
17.5°	949.7	942.2	951.0	951.5	951.0
20°	936.3	928.1	939.1	938.2	939.1
22.5°	919.9	913.2	924.9	922.6	923.5
25°	894.5	888.1	901.0	898.2	898.2
27.5°	864.4	859.8	873.9	870.9	870.9
30°	844.3	839.8	854.5	850.8	850.8
32.5°	822.0	818.9	833.0	828.5	828.5
35°	786.7	784.9	798.8	793.2	793.2
37.5°	750.3	748.7	761.3	754.5	752.4
40°	723.6	722.7	733.8	726.4	726.4
42.5°	696.8	695.9	705.6	696.6	696.6
45°	655.8	654.0	660.4	652.0	650.2
47.5°	611.0	609.2	613.2	604.1	603.2
50°	580.5	578.7	580.5	572.2	571.2
52.5°	549.3	546.1	546.3	538.0	537.8
55°	501.6	495.2	495.1	487.6	487.6
57.5°	451.0	442.7	443.4	437.1	436.2
60°	416.1	407.0	407.8	402.2	401.3
62.5°	381.9	371.4	373.6	367.3	367.1
65°	325.1	317.8	318.6	315.8	315.8
67.5°	270.5	263.8	268.6	266.4	266.2
70°	230.4	225.8	232.2	232.2	231.3
72.5°	193.2	193.0	201.0	201.0	201.6
75°	140.3	146.6	155.1	156.0	156.0
77.5°	93.6	104.9	114.2	114.6	114.4
80°	66.9	79.6	88.2	90.1	89.2
82.5°	45.3	58.8	65.9	67.8	66.9
85°	20.4	31.3	37.2	38.1	37.2
87.5°	6.3	13.2	16.4	16.5	15.2
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



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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)