

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: P562722

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

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562722
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-PC3-075U-075D-830-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5564.7 lumens
Efficiency: N/A
Efficacy: 130.9 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

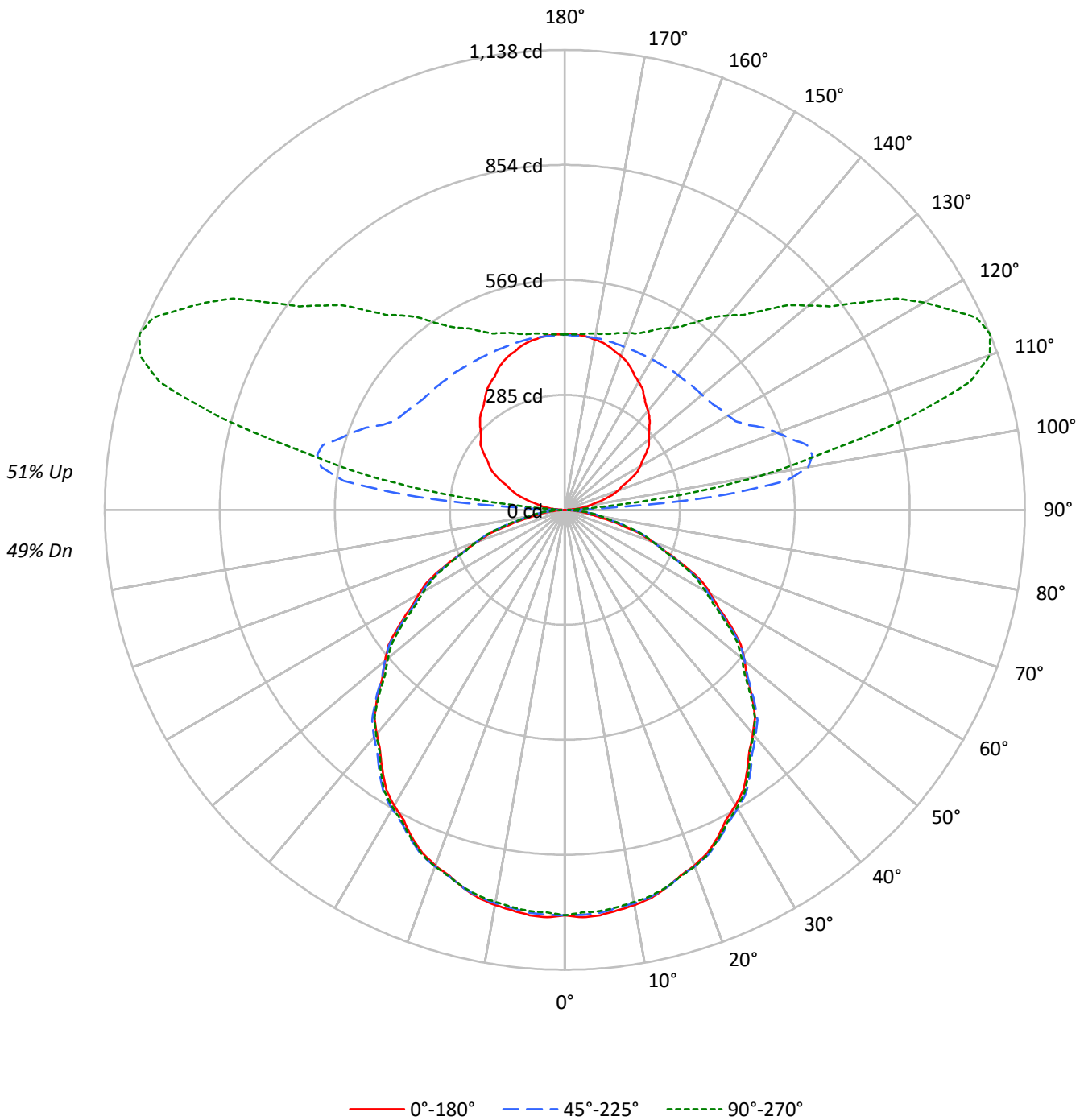
Input Watts (W): 42.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	55	55	55	49
1	98	93	90	86	90	86	83	80	73	70	68	60	59	57	49	48	47	42
2	89	82	75	70	82	75	70	66	64	60	56	53	50	48	43	41	40	35
3	81	72	64	58	74	66	60	55	56	51	47	47	43	40	38	36	34	29
4	74	63	55	49	68	59	52	46	50	45	40	42	38	35	34	31	29	25
5	68	56	48	42	62	52	45	40	45	39	35	37	33	30	31	28	25	22
6	63	51	42	37	58	47	40	34	40	34	30	34	29	26	28	25	22	19
7	58	46	38	32	53	42	35	30	36	31	27	31	26	23	25	22	20	17
8	54	41	34	28	49	39	32	27	33	28	24	28	24	21	23	20	18	15
9	50	38	30	25	46	35	28	24	30	25	21	26	21	18	21	18	16	14
10	47	35	27	23	43	32	26	21	28	23	19	24	20	17	20	17	14	12

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	1.7
10°-20°	272.4	4.9
20°-30°	412.6	7.4
30°-40°	494.6	8.9
40°-50°	504.4	9.1
50°-60°	440.3	7.9
60°-70°	315.2	5.7
70°-80°	162.3	2.9
80°-90°	42.2	0.8
90°-100°	204.6	3.7
100°-110°	562.9	10.1
110°-120°	581.0	10.4
120°-130°	465.5	8.4
130°-140°	365.6	6.6
140°-150°	280.2	5.0
150°-160°	201.4	3.6
160°-170°	123.2	2.2
170°-180°	41.5	0.7
0°-30°	780.0	14.0
0°-40°	1274.6	22.9
0°-60°	2219.2	39.9
0°-90°	2738.9	49.2
90°-120°	1348.4	24.2
90°-150°	2459.7	44.2
90°-180°	2826.0	50.8
0°-180°	5564.7	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°	1	4	6	8	8	3
95°	30	112	362	155	99	32
105°	101	155	620	944	881	106
115°	178	217	497	990	1124	176
125°	246	280	451	763	894	219
135°	296	329	438	617	699	229
145°	342	366	432	526	567	215
155°	388	400	429	473	486	178
165°	419	424	431	449	451	118
175°	434	435	432	437	436	41
180°	434	434	434	434	434	



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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°	6.1	13.2	16.2	16.5	15.0
90°	0.9	3.6	6.5	8.3	8.3
92.5°	12.7	54.4	94.3	36.2	29.7
95°	30.5	111.7	361.8	154.7	98.8
97.5°	49.7	123.8	552.1	425.4	300.1
100°	63.7	131.4	611.9	617.6	503.9
102.5°	77.0	140.3	627.4	766.2	661.9
105°	100.6	154.7	620.2	944.5	881.4
107.5°	123.1	172.6	584.9	1031.9	1050.6
110°	139.4	184.5	558.4	1053.6	1118.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	154.1	197.8	531.8	1039.6	1138.5
115°	178.1	216.9	497.4	990.5	1124.1
117.5°	201.0	236.7	475.7	921.7	1072.8
120°	215.0	249.3	466.1	870.2	1026.3
122.5°	227.6	261.9	459.4	824.9	973.1
125°	245.5	279.8	451.3	763.4	894.3
127.5°	262.5	295.1	445.9	712.1	826.9
130°	271.3	304.7	443.0	681.6	786.3
132.5°	281.7	315.1	440.8	654.8	749.4
135°	296.3	328.7	438.4	617.4	698.6
137.5°	309.9	340.1	436.3	587.2	654.2
140°	320.2	348.2	435.6	567.1	627.6
142.5°	329.1	354.9	434.1	549.2	601.0
145°	342.4	365.9	431.9	526.1	566.7
147.5°	356.6	376.8	430.8	505.6	538.1
150°	365.5	383.5	430.1	494.3	519.6
152.5°	373.6	390.2	429.3	484.6	505.6
155°	387.6	400.3	429.2	472.8	486.4
157.5°	397.8	408.1	429.2	463.1	472.5
160°	405.2	413.3	429.2	457.9	465.1
162.5°	411.1	417.7	429.9	453.5	459.2
165°	419.0	424.4	431.0	448.6	451.3
167.5°	424.5	428.7	431.9	444.5	445.2
170°	428.2	430.9	431.9	443.0	443.0
172.5°	431.2	432.4	431.9	440.8	440.0
175°	433.8	434.7	431.9	437.4	436.5
177.5°	434.5	434.5	431.6	435.9	434.5
180°	433.8	433.8	433.8	433.8	433.8

(END OF REPORT)