

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: P563010

Luminaire Tested: **SQ4-PC3-125U-075D-830-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563010
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, 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-PC3-125U-075D-830-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

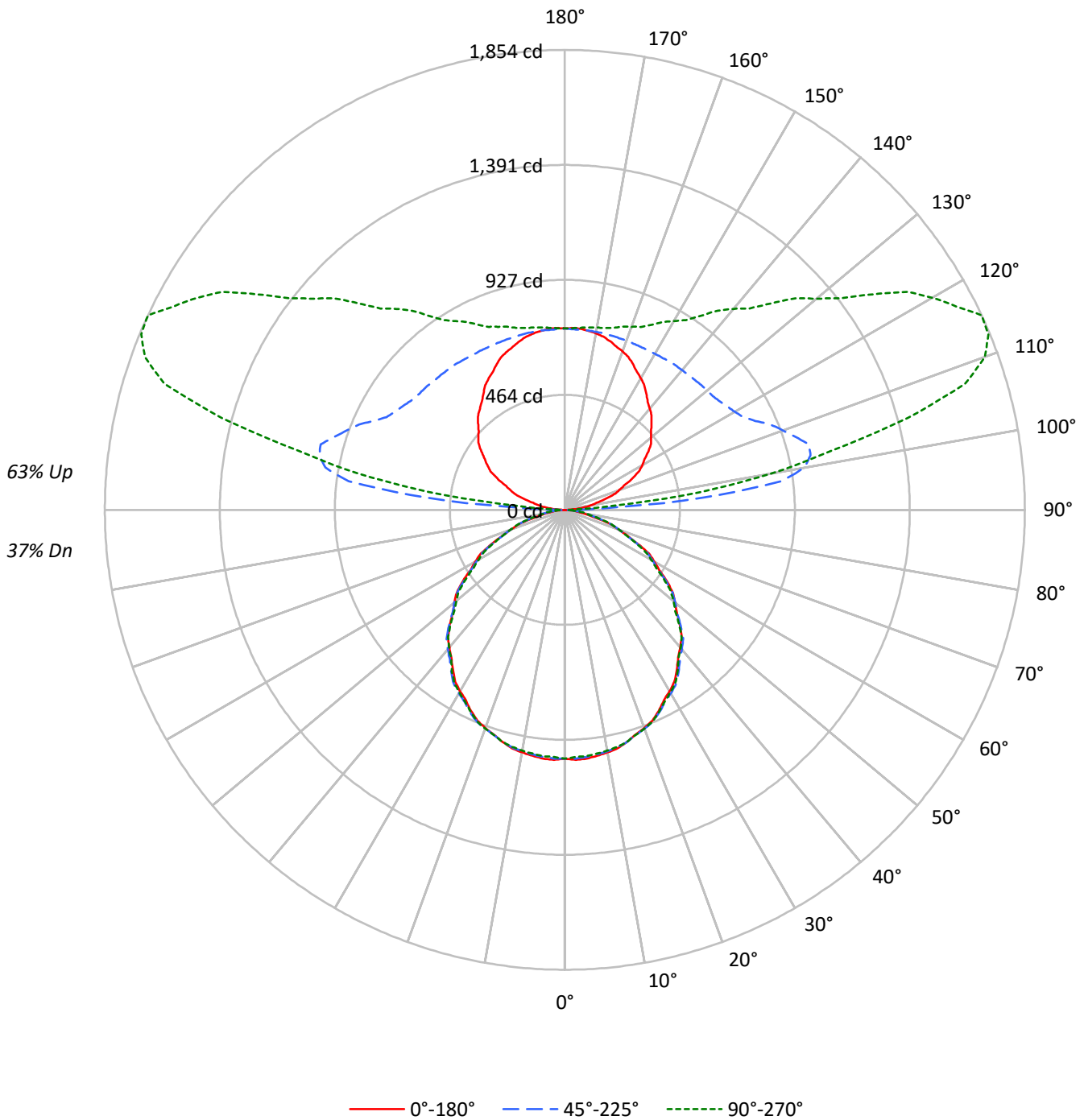
Lumens per Lamp: N/A
Luminaire Lumens: 7458.3 lumens
Efficiency: N/A
Efficacy: 133.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

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	83	86	82	79	76	67	64	62	52	51	49	39	38	37	31
2	86	79	73	68	78	72	67	62	58	55	52	46	43	41	34	33	31	26
3	79	69	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	59	50	43	38	41	36	32	32	29	26	24	22	20	16
6	61	49	41	35	55	45	38	33	37	31	27	29	25	22	22	19	17	14
7	56	44	36	31	51	40	33	28	33	28	24	26	23	20	20	17	15	13
8	52	40	32	27	47	36	30	25	30	25	21	24	20	18	18	16	14	11
9	48	36	29	24	44	33	27	22	27	22	19	22	18	16	17	14	12	10
10	45	33	26	21	41	30	24	20	25	20	17	20	17	14	16	13	11	9

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	1.3
10°-20°	272.4	3.7
20°-30°	412.6	5.5
30°-40°	494.6	6.6
40°-50°	504.4	6.8
50°-60°	440.3	5.9
60°-70°	315.2	4.2
70°-80°	162.3	2.2
80°-90°	42.8	0.6
90°-100°	342.0	4.6
100°-110°	921.1	12.4
110°-120°	966.7	13.0
120°-130°	784.4	10.5
130°-140°	615.2	8.2
140°-150°	472.3	6.3
150°-160°	339.6	4.6
160°-170°	207.5	2.8
170°-180°	70.0	0.9
0°-30°	780.0	10.5
0°-40°	1274.6	17.1
0°-60°	2219.2	29.8
0°-90°	2739.5	36.7
90°-120°	2229.8	29.9
90°-150°	4101.8	55.0
90°-180°	4719.0	63.3
0°-180°	7458.3	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	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°	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	13.6	17.1	17.2	15.8
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



TEST NUMBER: P563010

CATALOG NUMBER: SQ4-PC3-125U-075D-830-1D-UNV-STD-W-4

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)