

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: P563018

Luminaire Tested: **SQ4-PC3-125U-075D-840-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563018
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-840-1D-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: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

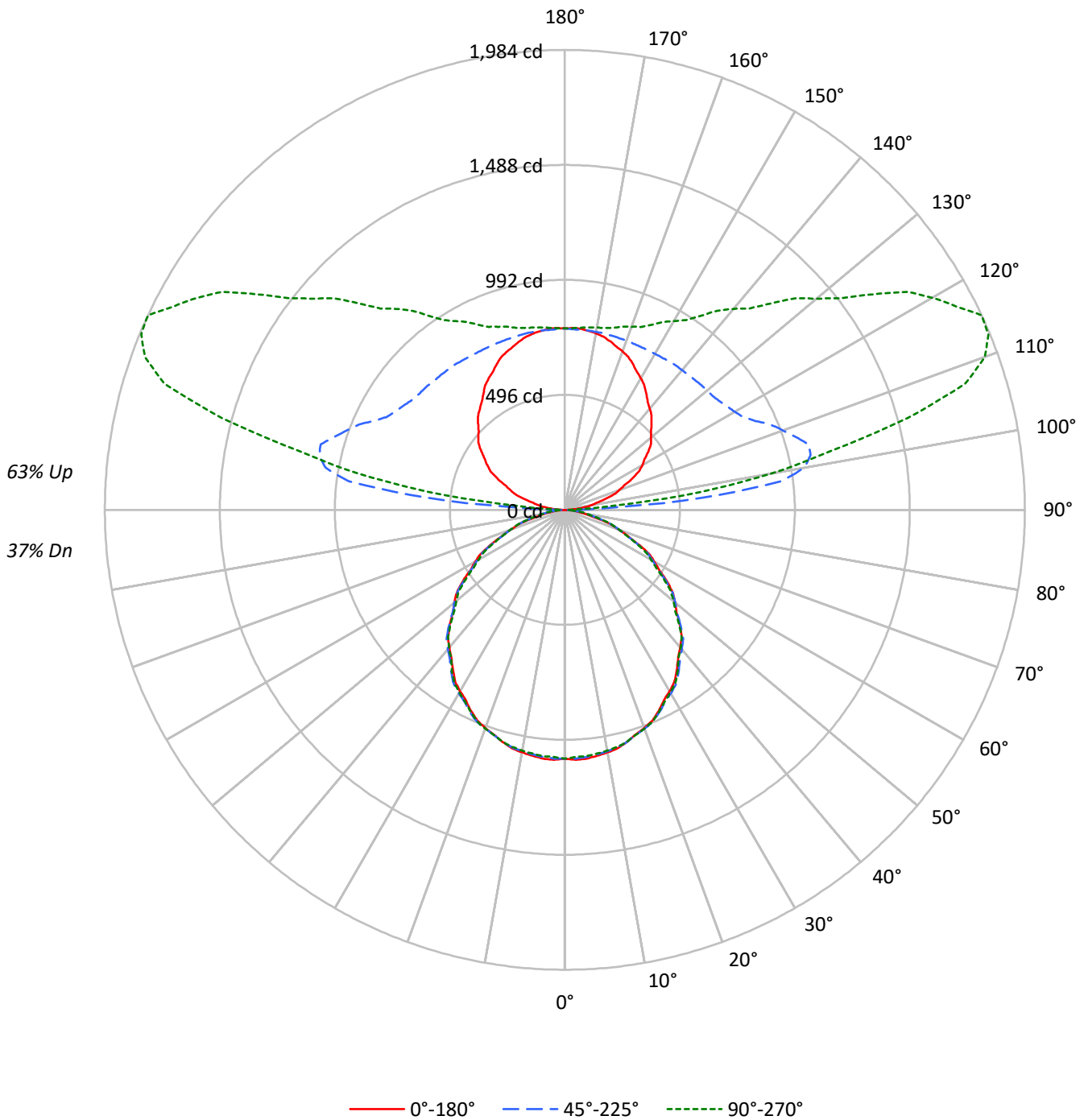
Lumens per Lamp: N/A
Luminaire Lumens: 7981.2 lumens
Efficiency: N/A
Efficacy: 143.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

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



TEST NUMBER: P563018
CATALOG NUMBER: SQ4-PC3-125U-075D-840-1D-UNV-STD-W-4

Luminous Intensity Polar Plot





TEST NUMBER: P563018

CATALOG NUMBER: SQ4-PC3-125U-075D-840-1D-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	50	30	10	0	
RCR																						
0	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	37				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°	9904	9904	9904
5°	9979	9914	9877
10°	9954	9908	9880
15°	9902	9902	9893
20°	9837	9866	9866
25°	9744	9815	9785
30°	9625	9742	9700
35°	9482	9628	9560
40°	9326	9457	9362
45°	9156	9221	9079
50°	8916	8916	8774
55°	8633	8522	8393
60°	8217	8053	7923
65°	7595	7442	7377
70°	6649	6703	6676
75°	5351	5917	5953
80°	3804	5016	5069
85°	2318	4213	4213



TEST NUMBER: P563018

CATALOG NUMBER: SQ4-PC3-125U-075D-840-1D-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.6	1.3
10°-20°	291.5	3.7
20°-30°	441.5	5.5
30°-40°	529.3	6.6
40°-50°	539.7	6.8
50°-60°	471.1	5.9
60°-70°	337.3	4.2
70°-80°	173.7	2.2
80°-90°	45.8	0.6
90°-100°	365.9	4.6
100°-110°	985.7	12.4
110°-120°	1034.5	13.0
120°-130°	839.4	10.5
130°-140°	658.3	8.2
140°-150°	505.4	6.3
150°-160°	363.4	4.6
160°-170°	222.0	2.8
170°-180°	74.9	0.9
0°-30°	834.6	10.5
0°-40°	1363.9	17.1
0°-60°	2374.8	29.8
0°-90°	2931.6	36.7
90°-120°	2386.1	29.9
90°-150°	4389.3	55.0
90°-180°	5050.0	63.3
0°-180°	7981.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1074	1074	1074	1074	1074	
5°	1078	1067	1070	1068	1066	102
15°	1037	1028	1037	1037	1036	292
25°	957	950	964	961	961	441
35°	842	840	855	849	849	527
45°	702	700	707	698	696	540
55°	537	530	530	522	522	478
65°	348	340	341	338	338	344
75°	150	157	166	167	167	162
85°	22	34	40	41	40	30
90°	2	6	12	13	13	5
95°	56	199	600	307	212	58
105°	182	284	1090	1631	1530	192
115°	322	394	908	1754	1984	317
125°	439	505	815	1378	1621	392
135°	529	590	792	1111	1258	408
145°	612	660	782	950	1020	384
155°	694	720	775	853	880	320
165°	753	762	778	809	813	212
175°	783	782	779	790	788	74
180°	782	782	782	782	782	



TEST NUMBER: P563018

CATALOG NUMBER: SQ4-PC3-125U-075D-840-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1073.5	1073.5	1073.5	1073.5	1073.5
2.5°	1079.8	1070.5	1073.5	1071.0	1067.1
5°	1077.5	1066.8	1070.5	1067.5	1066.5
7.5°	1069.7	1059.0	1063.9	1061.9	1061.0
10°	1062.5	1051.9	1057.6	1055.6	1054.6
12.5°	1053.0	1043.1	1049.6	1047.6	1047.4
15°	1036.7	1028.0	1036.7	1036.7	1035.7
17.5°	1016.2	1008.3	1017.6	1018.2	1017.6
20°	1001.9	993.2	1004.9	1003.9	1004.9
22.5°	984.4	977.2	989.8	987.2	988.2
25°	957.2	950.4	964.1	961.2	961.2
27.5°	925.0	920.1	935.1	931.9	931.9
30°	903.5	898.7	914.4	910.5	910.5
32.5°	879.7	876.4	891.4	886.6	886.6
35°	841.9	839.9	854.8	848.8	848.8
37.5°	802.9	801.2	814.7	807.4	805.1
40°	774.3	773.3	785.2	777.3	777.3
42.5°	745.7	744.7	755.0	745.5	745.5
45°	701.7	699.8	706.7	697.7	695.8
47.5°	653.8	651.9	656.2	646.5	645.5
50°	621.2	619.3	621.2	612.3	611.3
52.5°	587.8	584.3	584.6	575.7	575.5
55°	536.7	529.9	529.8	521.8	521.8
57.5°	482.7	473.7	474.5	467.7	466.8
60°	445.3	435.6	436.4	430.4	429.4
62.5°	408.7	397.4	399.8	393.0	392.8
65°	347.9	340.1	340.9	337.9	337.9
67.5°	289.4	282.3	287.5	285.1	284.9
70°	246.5	241.6	248.5	248.5	247.5
72.5°	206.7	206.6	215.1	215.1	215.7
75°	150.1	156.9	166.0	167.0	167.0
77.5°	100.2	112.2	122.3	122.7	122.5
80°	71.6	85.2	94.4	96.4	95.4
82.5°	48.5	62.9	70.6	72.5	71.6
85°	21.9	33.5	39.8	40.7	39.8
87.5°	6.8	14.5	18.3	18.5	16.9
90°	2.0	5.9	12.0	13.0	13.0
92.5°	24.3	85.9	169.8	81.7	56.8
95°	55.8	199.0	599.9	306.8	212.2
97.5°	89.1	227.8	940.8	786.0	592.7
100°	114.6	239.3	1049.3	1097.8	910.8
102.5°	139.3	255.4	1085.1	1331.4	1177.8
105°	182.3	283.7	1090.1	1630.9	1530.5
107.5°	223.0	313.4	1043.7	1784.8	1810.7
110°	250.1	335.8	1001.4	1832.6	1927.1



TEST NUMBER: P563018

CATALOG NUMBER: SQ4-PC3-125U-075D-840-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	278.8	358.3	960.8	1822.0	1977.3
115°	321.9	394.0	907.8	1754.0	1983.9
117.5°	361.1	428.7	866.7	1645.4	1901.4
120°	386.6	451.9	846.0	1567.4	1830.5
122.5°	408.9	473.4	830.8	1487.7	1750.0
125°	439.4	504.7	815.1	1377.6	1621.2
127.5°	468.7	533.0	805.1	1280.6	1498.1
130°	486.3	550.6	801.1	1225.0	1416.0
132.5°	503.8	567.3	797.2	1176.0	1351.4
135°	529.1	590.5	792.2	1111.4	1258.5
137.5°	553.2	612.1	789.6	1056.6	1177.4
140°	570.0	626.5	787.2	1022.8	1132.0
142.5°	587.5	640.1	785.6	991.4	1083.3
145°	611.8	659.6	782.2	950.2	1020.4
147.5°	638.1	679.6	778.8	915.6	970.7
150°	655.7	691.7	777.2	893.9	939.6
152.5°	671.6	703.0	776.4	876.1	913.3
155°	694.5	719.9	775.2	852.6	879.9
157.5°	714.7	734.3	775.4	836.0	854.4
160°	727.4	744.0	776.2	826.4	840.0
162.5°	738.6	752.0	777.0	818.3	828.0
165°	753.3	762.1	778.2	809.2	813.1
167.5°	765.3	770.3	779.2	802.2	803.7
170°	773.2	775.2	779.2	798.2	798.2
172.5°	778.0	778.4	780.0	794.2	794.2
175°	783.2	782.2	779.2	790.1	788.2
177.5°	785.4	783.8	779.8	786.2	784.6
180°	782.2	782.2	782.2	782.2	782.2

(END OF REPORT)