

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: P562587

Luminaire Tested: **SQ4-PC3-025U-125D-840-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562587
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-PC3-025U-125D-840-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

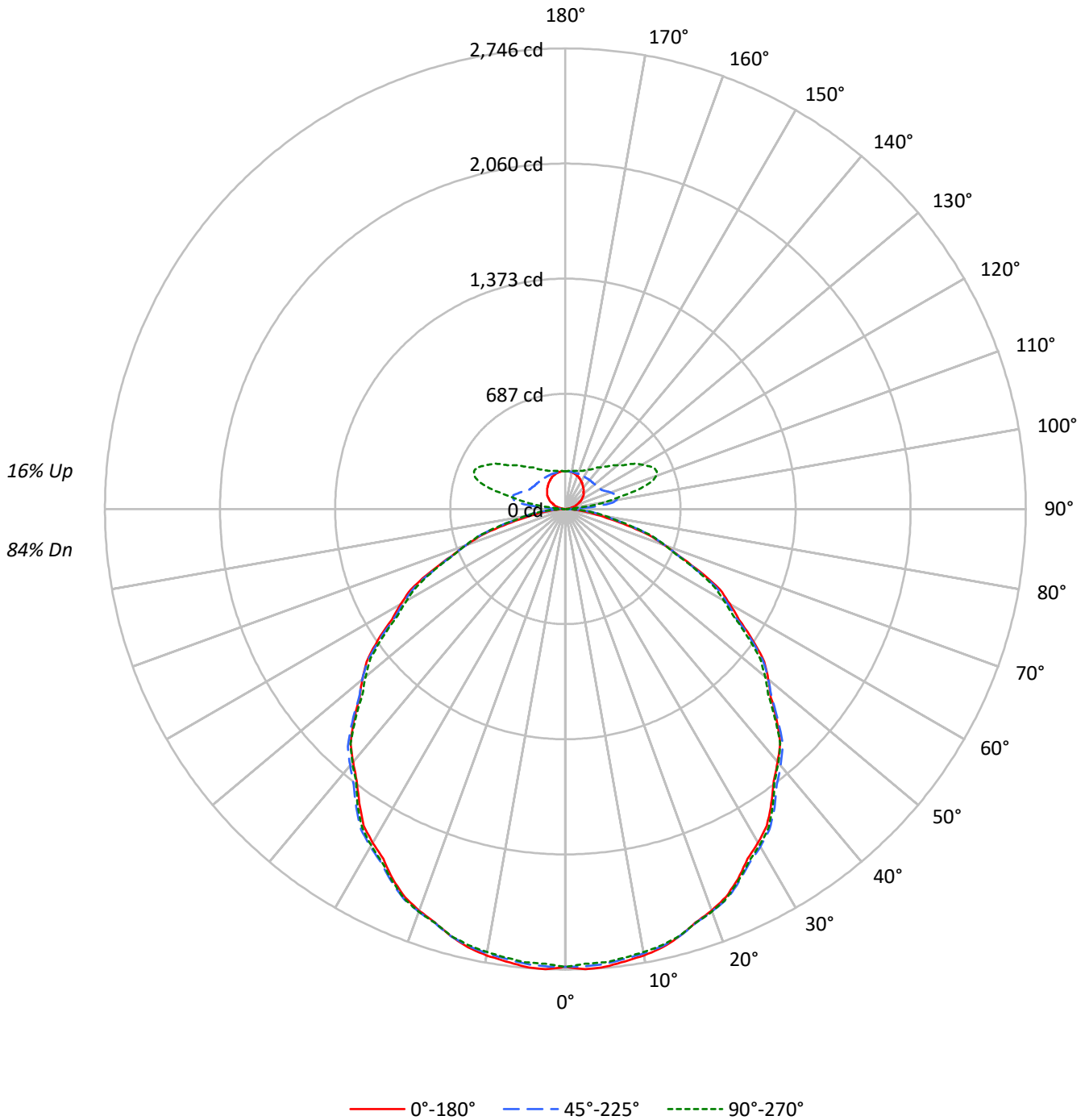
Lumens per Lamp: N/A
Luminaire Lumens: 8916.1 lumens
Efficiency: N/A
Efficacy: 114.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 77.9
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: P562587
CATALOG NUMBER: SQ4-PC3-025U-125D-840-1D-UNV-STD-W-6

Luminous Intensity Polar Plot





TEST NUMBER: P562587

CATALOG NUMBER: SQ4-PC3-025U-125D-840-1D-UNV-STD-W-6

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	115	115	115	115	111	111	111	111	102	102	102	94	94	94	87	87	87	84
1	105	101	97	93	101	97	93	90	90	87	84	83	81	79	77	75	74	71
2	96	88	82	76	92	85	79	74	79	74	70	73	69	66	68	65	62	59
3	88	78	70	64	84	75	68	62	70	64	59	65	60	56	60	56	53	50
4	80	69	60	54	77	66	59	53	62	55	50	58	52	48	54	49	46	43
5	74	61	53	46	71	59	51	45	55	49	43	52	46	42	48	44	40	37
6	68	55	47	40	65	53	45	40	50	43	38	47	41	36	44	39	35	33
7	63	50	42	36	60	48	41	35	45	39	34	43	37	32	40	35	31	29
8	59	46	37	32	56	44	37	31	42	35	30	39	33	29	37	32	28	26
9	55	42	34	28	53	41	33	28	38	32	27	36	30	26	34	29	25	23
10	51	38	31	26	49	37	30	25	35	29	24	33	28	24	31	26	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16794	16794	16794
5°	16920	16811	16748
10°	16879	16800	16753
15°	16791	16791	16774
20°	16680	16730	16730
25°	16522	16642	16591
30°	16321	16519	16447
35°	16078	16325	16211
40°	15813	16036	15873
45°	15525	15635	15393
50°	15119	15119	14878
55°	14639	14450	14232
60°	13933	13652	13435
65°	12877	12620	12509
70°	11276	11366	11321
75°	9071	10034	10093
80°	6447	8508	8597
85°	3924	7135	7135



TEST NUMBER: P562587

CATALOG NUMBER: SQ4-PC3-025U-125D-840-1D-UNV-STD-W-6

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.4	2.9
10°-20°	741.5	8.3
20°-30°	1122.9	12.6
30°-40°	1346.2	15.1
40°-50°	1372.7	15.4
50°-60°	1198.3	13.4
60°-70°	857.9	9.6
70°-80°	441.9	5.0
80°-90°	112.9	1.3
90°-100°	110.0	1.2
100°-110°	289.3	3.2
110°-120°	300.0	3.4
120°-130°	240.6	2.7
130°-140°	188.8	2.1
140°-150°	144.9	1.6
150°-160°	104.4	1.2
160°-170°	63.9	0.7
170°-180°	21.6	0.2
0°-30°	2122.8	23.8
0°-40°	3469.1	38.9
0°-60°	6040.0	67.7
0°-90°	7452.7	83.6
90°-120°	699.3	7.8
90°-150°	1273.6	14.3
90°-180°	1463.0	16.4
0°-180°	8916.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2730	2730	2730	2730	2730	
5°	2740	2713	2723	2715	2713	260
15°	2637	2614	2637	2637	2634	743
25°	2434	2417	2452	2445	2445	1120
35°	2141	2136	2174	2159	2159	1339
45°	1785	1780	1797	1775	1770	1374
55°	1365	1348	1348	1327	1327	1217
65°	885	865	867	860	860	875
75°	382	399	422	425	425	413
85°	56	85	101	104	101	76
90°	1	4	12	6	6	3
95°	14	57	190	98	67	16
105°	52	79	320	486	453	55
115°	93	112	256	511	583	91
125°	129	144	233	394	465	114
135°	153	169	226	318	360	119
145°	178	189	223	271	292	112
155°	201	207	223	245	252	92
165°	217	220	223	232	234	61
175°	226	226	224	227	227	21
180°	226	226	226	226	226	

TEST NUMBER: P562587

CATALOG NUMBER: SQ4-PC3-025U-125D-840-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2730.3	2730.3	2730.3	2730.3	2730.3
2.5°	2746.5	2722.7	2730.3	2724.0	2714.1
5°	2740.4	2713.2	2722.7	2715.1	2712.6
7.5°	2720.7	2693.5	2706.0	2700.9	2698.4
10°	2702.5	2675.3	2689.8	2684.7	2682.3
12.5°	2678.2	2653.0	2669.6	2664.6	2664.1
15°	2636.8	2614.5	2636.8	2636.7	2634.2
17.5°	2584.7	2564.4	2588.2	2589.7	2588.2
20°	2548.3	2526.0	2555.9	2553.4	2555.9
22.5°	2503.8	2485.5	2517.4	2510.9	2513.4
25°	2434.5	2417.2	2452.2	2444.6	2444.6
27.5°	2352.6	2340.2	2378.4	2370.3	2370.3
30°	2298.0	2285.6	2325.8	2315.7	2315.7
32.5°	2237.3	2228.9	2267.2	2255.0	2255.0
35°	2141.3	2136.3	2174.1	2159.0	2159.0
37.5°	2042.2	2037.7	2072.0	2053.7	2047.7
40°	1969.4	1966.9	1997.2	1976.9	1976.9
42.5°	1896.5	1894.1	1920.3	1896.0	1896.0
45°	1784.8	1779.9	1797.4	1774.6	1769.6
47.5°	1663.0	1658.0	1669.0	1644.2	1641.7
50°	1580.0	1575.1	1580.0	1557.2	1554.8
52.5°	1495.1	1486.2	1487.0	1464.2	1463.7
55°	1365.1	1347.8	1347.5	1327.2	1327.2
57.5°	1227.6	1204.9	1206.9	1189.6	1187.2
60°	1132.6	1107.8	1109.8	1094.6	1092.1
62.5°	1039.5	1010.9	1016.8	999.6	999.1
65°	884.8	865.0	867.1	859.5	859.5
67.5°	736.2	717.9	731.1	725.0	724.5
70°	627.0	614.6	632.0	632.0	629.5
72.5°	525.8	525.3	547.1	547.1	548.6
75°	381.7	399.0	422.2	424.7	424.7
77.5°	254.8	285.5	311.0	312.0	311.5
80°	182.0	216.6	240.2	245.2	242.7
82.5°	123.4	160.0	179.5	184.5	182.0
85°	55.6	85.3	101.1	103.6	101.1
87.5°	16.5	34.8	42.8	41.5	37.6
90°	1.4	4.3	11.6	5.8	5.8
92.5°	6.1	29.3	64.8	28.7	18.5
95°	14.5	56.9	189.6	97.7	66.6
97.5°	25.2	62.5	283.7	225.6	166.2
100°	33.3	67.3	312.6	316.8	246.0
102.5°	40.2	71.9	320.7	394.6	334.0
105°	52.1	79.0	319.9	485.6	453.0
107.5°	64.3	89.2	301.6	532.8	540.7
110°	72.4	95.0	286.6	545.0	578.9



TEST NUMBER: P562587

CATALOG NUMBER: SQ4-PC3-025U-125D-840-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	80.5	102.0	272.7	537.3	589.4
115°	92.6	112.4	256.2	511.1	583.3
117.5°	104.5	122.6	244.9	474.8	554.9
120°	111.4	128.4	240.3	450.4	528.3
122.5°	118.4	135.4	236.8	426.1	502.8
125°	128.8	144.4	233.0	393.8	464.6
127.5°	137.2	153.1	229.8	367.8	427.5
130°	141.8	158.8	228.7	351.5	406.7
132.5°	146.5	163.5	227.5	337.5	387.0
135°	153.4	169.0	225.8	317.9	360.4
137.5°	160.7	175.9	225.5	303.3	338.1
140°	166.4	180.6	224.3	291.7	324.2
142.5°	171.1	184.1	224.3	283.4	311.5
145°	178.0	189.3	222.9	271.1	292.4
147.5°	185.0	196.0	222.9	260.9	278.5
150°	189.6	199.5	222.9	255.1	269.2
152.5°	194.2	201.9	222.9	250.3	261.1
155°	201.2	206.8	222.9	244.8	251.8
157.5°	206.4	211.8	222.9	239.8	244.9
160°	209.9	214.1	222.9	237.4	240.3
162.5°	213.3	216.5	222.9	235.1	237.9
165°	217.1	219.9	222.9	231.6	234.5
167.5°	220.6	222.0	224.3	230.2	231.3
170°	222.9	224.3	224.3	230.1	230.1
172.5°	224.0	224.3	224.3	228.9	227.8
175°	225.8	225.8	224.3	227.2	227.2
177.5°	225.8	225.8	224.6	226.9	225.8
180°	225.8	225.8	225.8	225.8	225.8

(END OF REPORT)