

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: P562779

Luminaire Tested: **SQ4-PC3-075U-125D-840-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562779
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-125D-840-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

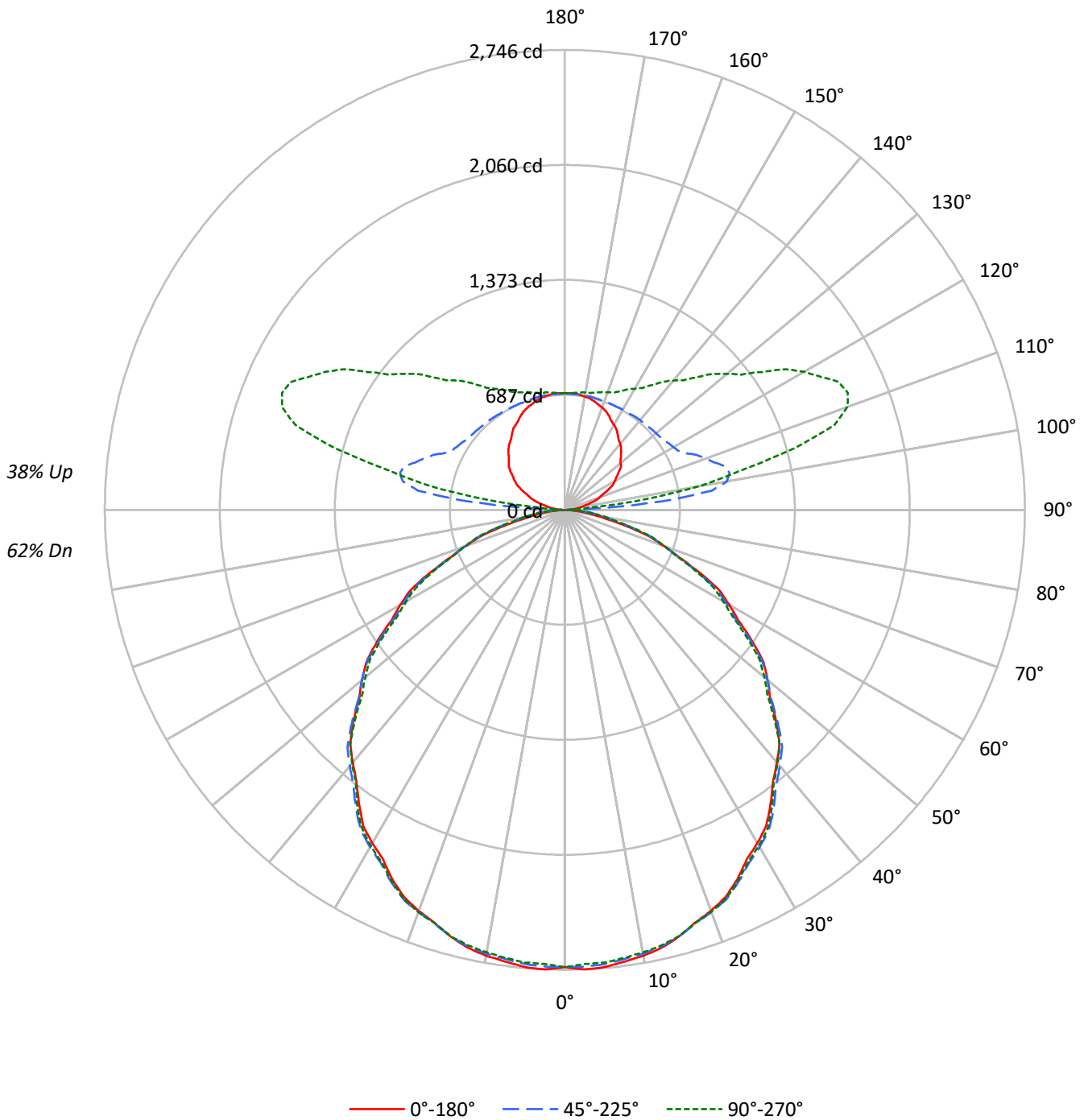
Lumens per Lamp: N/A
Luminaire Lumens: 11989.1 lumens
Efficiency: N/A
Efficacy: 123.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 97.3
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: P562779
CATALOG NUMBER: SQ4-PC3-075U-125D-840-1D-UNV-STD-W-6

Luminous Intensity Polar Plot





TEST NUMBER: P562779

CATALOG NUMBER: SQ4-PC3-075U-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	110	110	110	110	103	103	103	103	90	90	90	78	78	78	67	67	67	62
1	101	96	92	89	94	90	87	84	79	77	74	69	67	65	60	58	57	53
2	92	84	78	73	86	79	73	69	69	65	62	61	57	55	52	50	48	44
3	84	74	66	60	78	70	63	57	61	56	52	54	50	46	46	43	41	37
4	76	65	57	51	71	62	54	49	54	49	44	48	43	40	42	38	35	32
5	70	58	50	44	66	55	47	42	49	43	38	43	38	34	37	34	31	28
6	65	52	44	38	60	49	42	36	44	38	33	39	34	30	34	30	27	24
7	60	47	39	33	56	45	37	32	40	34	29	35	30	27	31	27	24	21
8	56	43	35	30	52	41	33	28	36	30	26	32	27	24	28	24	21	19
9	52	39	32	26	48	37	30	25	33	27	23	30	25	21	26	22	19	17
10	48	36	29	24	45	34	27	23	31	25	21	27	23	19	24	20	17	16

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: P562779

CATALOG NUMBER: SQ4-PC3-075U-125D-840-1D-UNV-STD-W-6

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.4	2.2
10°-20°	741.5	6.2
20°-30°	1122.9	9.4
30°-40°	1346.2	11.2
40°-50°	1372.7	11.4
50°-60°	1198.3	10.0
60°-70°	857.9	7.2
70°-80°	441.9	3.7
80°-90°	113.5	0.9
90°-100°	328.4	2.7
100°-110°	903.5	7.5
110°-120°	932.6	7.8
120°-130°	747.2	6.2
130°-140°	586.8	4.9
140°-150°	449.7	3.8
150°-160°	323.3	2.7
160°-170°	197.7	1.6
170°-180°	66.6	0.6
0°-30°	2122.8	17.7
0°-40°	3469.1	28.9
0°-60°	6040.0	50.4
0°-90°	7453.3	62.2
90°-120°	2164.4	18.1
90°-150°	3948.2	32.9
90°-180°	4536.0	37.8
0°-180°	11989.1	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°	2	6	10	13	13	5
95°	49	179	581	248	158	52
105°	162	248	996	1516	1415	170
115°	286	348	798	1590	1804	282
125°	394	449	724	1226	1436	352
135°	476	528	704	991	1121	367
145°	550	587	693	844	910	345
155°	622	642	689	759	781	286
165°	673	681	692	720	724	190
175°	696	698	693	702	701	66
180°	696	696	696	696	696	

TEST NUMBER: P562779

CATALOG NUMBER: SQ4-PC3-075U-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	35.1	42.5	43.0	39.1
90°	1.5	5.8	10.4	13.3	13.3
92.5°	20.4	87.4	151.4	58.1	47.7
95°	48.9	179.3	580.7	248.3	158.5
97.5°	79.7	198.8	886.2	682.8	481.8
100°	102.2	210.9	982.2	991.4	808.8
102.5°	123.5	225.2	1007.1	1229.9	1062.5
105°	161.5	248.4	995.5	1516.1	1414.7
107.5°	197.6	277.0	938.9	1656.3	1686.4
110°	223.7	296.1	896.3	1691.2	1795.5



TEST NUMBER: P562779

CATALOG NUMBER: SQ4-PC3-075U-125D-840-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	247.4	317.5	853.6	1668.7	1827.5
115°	285.9	348.2	798.5	1590.0	1804.4
117.5°	322.7	380.0	763.5	1479.5	1722.0
120°	345.2	400.2	748.1	1396.7	1647.3
122.5°	365.3	420.4	737.4	1324.2	1562.0
125°	394.1	449.1	724.4	1225.5	1435.5
127.5°	421.3	473.7	715.8	1143.1	1327.3
130°	435.5	489.1	711.1	1094.1	1262.2
132.5°	452.1	505.7	707.5	1051.1	1202.9
135°	475.5	527.7	703.7	991.1	1121.4
137.5°	497.5	545.8	700.4	942.5	1050.0
140°	514.0	559.0	699.2	910.3	1007.4
142.5°	528.3	569.7	696.9	881.5	964.7
145°	549.6	587.3	693.3	844.4	909.6
147.5°	572.4	604.9	691.5	811.5	863.7
150°	586.6	615.6	690.3	793.5	834.0
152.5°	599.7	626.3	689.2	777.9	811.5
155°	622.2	642.5	688.9	759.0	780.7
157.5°	638.5	655.0	688.9	743.4	758.5
160°	650.3	663.4	688.9	735.0	746.6
162.5°	659.8	670.5	690.0	727.9	737.1
165°	672.6	681.2	691.8	720.1	724.4
167.5°	681.4	688.1	693.3	713.5	714.6
170°	687.4	691.7	693.3	711.1	711.1
172.5°	692.1	694.1	693.3	707.5	706.3
175°	696.3	697.7	693.3	702.2	700.7
177.5°	697.4	697.4	692.7	699.8	697.4
180°	696.3	696.3	696.3	696.3	696.3

(END OF REPORT)