

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: P561561

Luminaire Tested: **SQ4-PC3-075U-125D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561561
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, 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-92765-1D-UNV-STD-W-4 (5000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

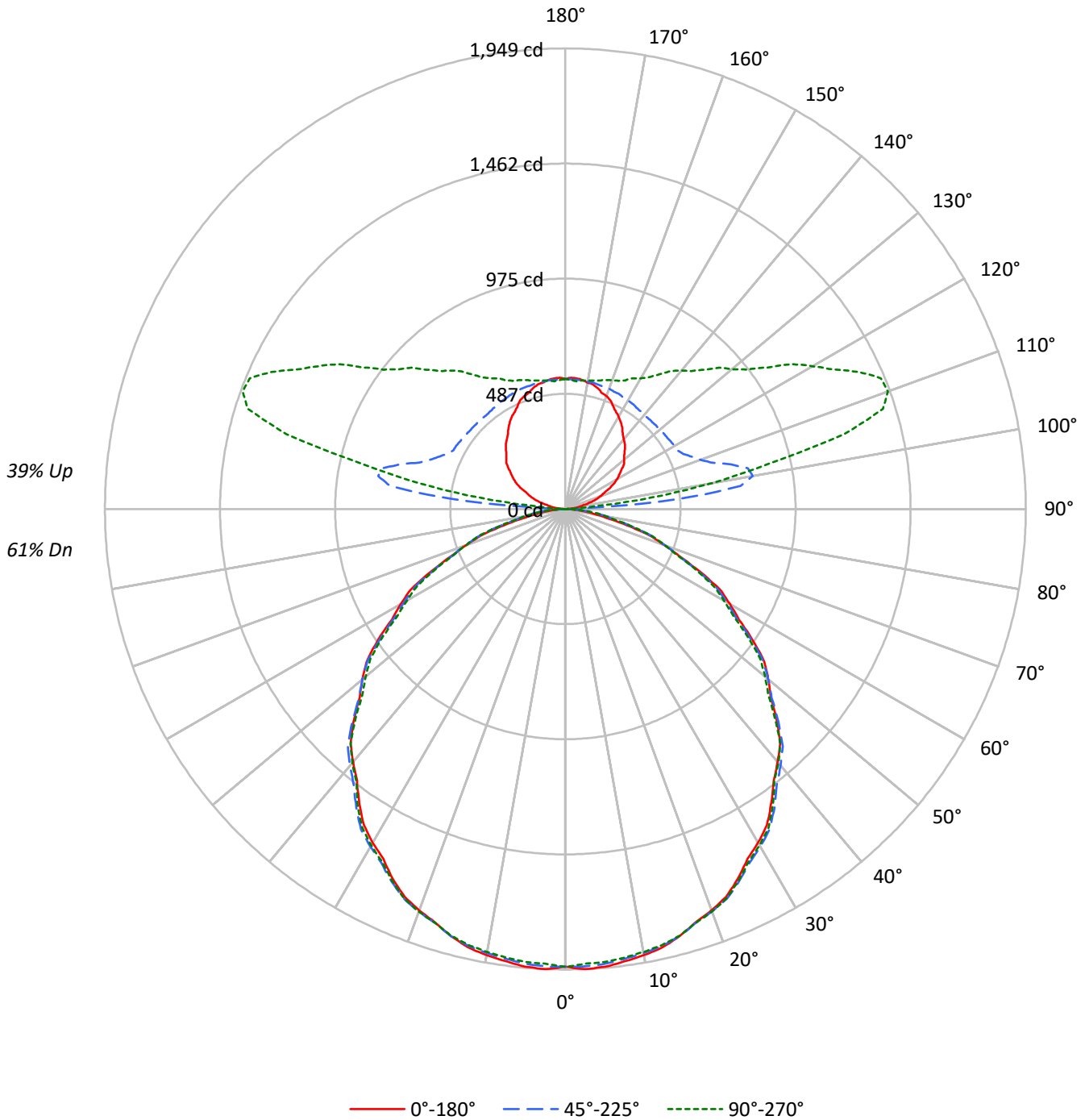
Lumens per Lamp: N/A
Luminaire Lumens: 8705.7 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 79.3
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



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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	110	110	110	110	103	103	103	103	89	89	89	77	77	77	66	66	66	61
1	100	96	92	88	94	90	86	83	78	76	74	68	66	64	58	57	56	51
2	91	84	78	72	85	79	73	68	69	65	61	60	57	54	51	49	47	43
3	83	74	66	60	78	69	63	57	61	56	51	53	49	46	46	43	40	36
4	76	65	57	51	71	61	54	48	54	48	44	47	43	39	41	37	34	31
5	70	58	50	44	65	55	47	42	48	42	38	42	38	34	37	33	30	27
6	64	52	44	38	60	49	42	36	43	37	33	38	33	30	33	29	26	24
7	60	47	39	33	56	44	37	32	39	33	29	35	30	26	30	26	23	21
8	55	43	35	29	52	40	33	28	36	30	26	32	27	23	28	24	21	19
9	52	39	31	26	48	37	30	25	33	27	23	29	24	21	26	22	19	17
10	48	36	29	24	45	34	27	23	30	25	21	27	22	19	24	20	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17875	17875	17875
5°	18010	17893	17826
10°	17966	17882	17831
15°	17871	17871	17854
20°	17753	17807	17807
25°	17586	17714	17659
30°	17372	17583	17506
35°	17113	17376	17255
40°	16830	17069	16895
45°	16525	16641	16384
50°	16093	16093	15835
55°	15582	15379	15149
60°	14830	14531	14301
65°	13708	13433	13315
70°	12001	12099	12050
75°	9657	10680	10744
80°	6865	9054	9149
85°	4181	7601	7601



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.4	2.1
10°-20°	526.2	6.0
20°-30°	796.8	9.2
30°-40°	955.3	11.0
40°-50°	974.0	11.2
50°-60°	850.3	9.8
60°-70°	608.7	7.0
70°-80°	313.5	3.6
80°-90°	79.3	0.9
90°-100°	250.8	2.9
100°-110°	713.5	8.2
110°-120°	683.6	7.9
120°-130°	541.0	6.2
130°-140°	434.3	5.0
140°-150°	340.0	3.9
150°-160°	248.8	2.9
160°-170°	154.1	1.8
170°-180°	52.3	0.6
0°-30°	1506.3	17.3
0°-40°	2461.6	28.3
0°-60°	4286.0	49.2
0°-90°	5287.5	60.7
90°-120°	1647.8	18.9
90°-150°	2963.1	34.0
90°-180°	3418.0	39.3
0°-180°	8705.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1937	1937	1937	1937	1937	
5°	1945	1925	1932	1927	1925	185
15°	1871	1855	1871	1871	1869	528
25°	1728	1715	1740	1735	1735	795
35°	1519	1516	1543	1532	1532	950
45°	1266	1263	1275	1259	1256	975
55°	969	956	956	942	942	864
65°	628	614	615	610	610	621
75°	271	283	300	301	301	293
85°	40	60	72	74	72	54
90°	0	0	0	0	0	3
95°	27	108	485	168	104	31
105°	111	168	727	1284	1221	117
115°	206	249	551	1168	1372	203
125°	291	322	526	873	1044	260
135°	356	385	520	738	834	274
145°	420	441	524	638	696	262
155°	479	490	537	577	600	221
165°	529	531	543	555	563	149
175°	554	551	549	546	542	53
180°	550	550	550	550	550	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1937.4	1937.4	1937.4	1937.4	1937.4
2.5°	1948.9	1932.0	1937.4	1932.9	1925.9
5°	1944.6	1925.3	1932.0	1926.6	1924.8
7.5°	1930.6	1911.3	1920.2	1916.5	1914.8
10°	1917.7	1898.4	1908.7	1905.1	1903.3
12.5°	1900.4	1882.5	1894.3	1890.7	1890.4
15°	1871.0	1855.2	1871.0	1871.0	1869.2
17.5°	1834.1	1819.7	1836.6	1837.6	1836.6
20°	1808.2	1792.4	1813.6	1811.9	1813.6
22.5°	1776.7	1763.7	1786.3	1781.7	1783.5
25°	1727.5	1715.2	1740.1	1734.7	1734.7
27.5°	1669.4	1660.6	1687.7	1681.9	1681.9
30°	1630.6	1621.9	1650.4	1643.2	1643.2
32.5°	1587.6	1581.6	1608.7	1600.1	1600.1
35°	1519.4	1515.9	1542.7	1532.0	1532.0
37.5°	1449.1	1445.9	1470.3	1457.2	1453.0
40°	1397.4	1395.7	1417.2	1402.8	1402.8
42.5°	1345.8	1344.0	1362.6	1345.4	1345.4
45°	1266.5	1263.0	1275.4	1259.2	1255.7
47.5°	1180.0	1176.5	1184.3	1166.7	1164.9
50°	1121.2	1117.7	1121.2	1105.0	1103.2
52.5°	1060.9	1054.6	1055.2	1039.0	1038.7
55°	968.7	956.4	956.1	941.8	941.8
57.5°	871.1	855.0	856.4	844.2	842.4
60°	803.7	786.1	787.5	776.7	775.0
62.5°	737.6	717.3	721.5	709.3	708.9
65°	627.9	613.8	615.3	609.9	609.9
67.5°	522.4	509.4	518.8	514.5	514.1
70°	444.9	436.1	448.5	448.4	446.7
72.5°	373.1	372.8	388.2	388.2	389.3
75°	270.9	283.2	299.6	301.4	301.4
77.5°	180.8	202.6	220.6	221.4	221.0
80°	129.2	153.7	170.4	174.0	172.2
82.5°	87.5	113.5	127.4	130.9	129.2
85°	39.5	60.5	71.8	73.5	71.8
87.5°	11.5	24.1	28.7	28.6	25.8
90°	0.0	0.0	0.0	0.0	0.0
92.5°	8.4	44.4	102.9	30.0	22.6
95°	27.2	108.0	485.4	168.0	103.6
97.5°	50.0	126.5	747.6	535.0	366.6
100°	65.9	137.5	804.5	814.9	627.7
102.5°	83.5	149.4	792.0	1043.1	879.6
105°	110.9	168.2	727.1	1284.3	1220.9
107.5°	138.7	190.1	651.3	1352.3	1408.8
110°	158.0	206.0	607.8	1326.3	1453.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	176.4	222.0	578.5	1264.7	1445.6
115°	206.1	249.1	551.3	1168.0	1371.5
117.5°	232.2	272.6	535.2	1062.2	1277.8
120°	253.2	286.9	533.5	1001.7	1208.3
122.5°	269.9	303.7	529.4	948.6	1140.5
125°	290.8	322.5	526.2	873.2	1044.1
127.5°	313.6	343.3	524.5	828.2	969.0
130°	325.4	355.0	522.0	796.8	919.6
132.5°	337.9	366.8	522.0	772.3	885.3
135°	355.7	385.4	519.9	737.6	833.8
137.5°	372.4	401.3	519.7	708.3	791.3
140°	385.0	414.7	518.9	683.9	763.7
142.5°	399.2	424.0	521.4	664.5	736.1
145°	419.5	441.0	524.1	638.4	695.7
147.5°	436.9	457.7	528.7	612.1	661.6
150°	451.9	466.3	530.4	603.4	638.2
152.5°	463.7	478.8	532.1	591.6	623.9
155°	479.1	490.4	536.7	577.0	600.5
157.5°	498.4	505.1	537.7	570.3	587.1
160°	508.4	513.6	541.9	565.3	579.6
162.5°	514.3	520.2	542.8	561.0	572.0
165°	529.4	531.4	543.0	554.7	562.8
167.5°	539.6	537.8	547.8	553.1	556.4
170°	543.0	541.9	546.1	547.2	551.3
172.5°	550.5	547.0	548.6	545.5	548.8
175°	554.5	551.4	549.2	546.0	541.9
177.5°	556.1	551.2	548.6	545.3	546.1
180°	550.3	550.3	550.3	550.3	550.3

(END OF REPORT)