

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: P561559

Luminaire Tested: **SQ4-PC3-075U-125D-92765-1D-UNV-STD-W-4 (4000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561559
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 (4000K)
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 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

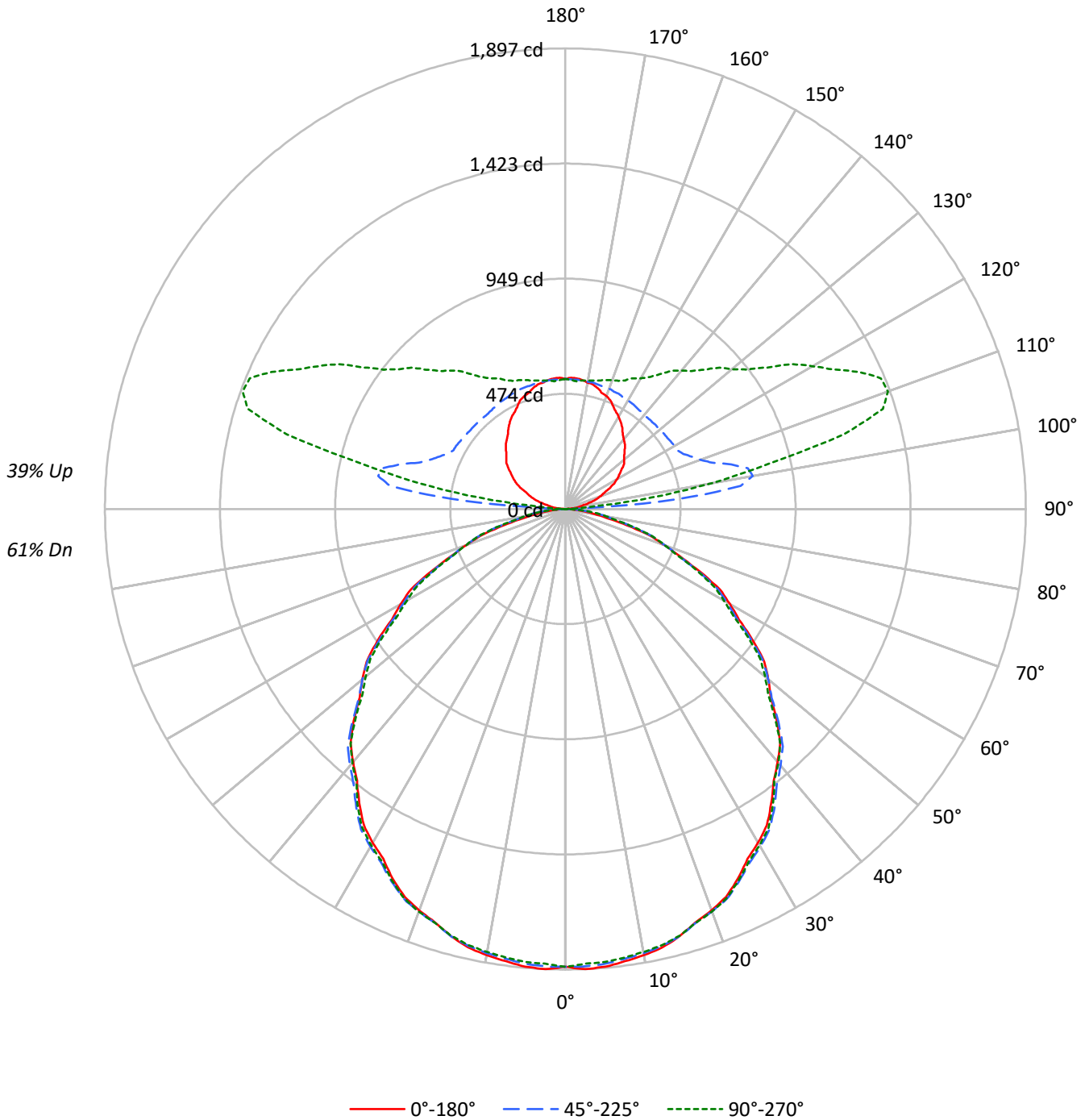
Lumens per Lamp: N/A
Luminaire Lumens: 8473.8 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 79.5
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°	17399	17399	17399
5°	17529	17416	17351
10°	17487	17405	17356
15°	17395	17395	17378
20°	17280	17332	17332
25°	17118	17242	17189
30°	16909	17114	17039
35°	16657	16913	16796
40°	16382	16613	16445
45°	16084	16199	15948
50°	15664	15664	15413
55°	15167	14971	14745
60°	14433	14144	13919
65°	13341	13075	12961
70°	11680	11775	11729
75°	9400	10395	10455
80°	6679	8815	8905
85°	4065	7389	7389



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.5	2.1
10°-20°	512.2	6.0
20°-30°	775.6	9.2
30°-40°	929.8	11.0
40°-50°	948.1	11.2
50°-60°	827.6	9.8
60°-70°	592.5	7.0
70°-80°	305.2	3.6
80°-90°	77.2	0.9
90°-100°	244.1	2.9
100°-110°	694.5	8.2
110°-120°	665.4	7.9
120°-130°	526.6	6.2
130°-140°	422.7	5.0
140°-150°	330.9	3.9
150°-160°	242.1	2.9
160°-170°	150.0	1.8
170°-180°	50.9	0.6
0°-30°	1466.2	17.3
0°-40°	2396.0	28.3
0°-60°	4171.8	49.2
0°-90°	5146.6	60.7
90°-120°	1603.9	18.9
90°-150°	2884.1	34.0
90°-180°	3327.0	39.3
0°-180°	8473.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1886	1886	1886	1886	1886	
5°	1893	1874	1880	1875	1874	180
15°	1821	1806	1821	1821	1819	513
25°	1682	1670	1694	1688	1688	774
35°	1479	1476	1502	1491	1491	925
45°	1233	1229	1242	1226	1222	949
55°	943	931	931	917	917	841
65°	611	598	599	594	594	604
75°	264	276	292	293	293	285
85°	38	59	70	72	70	52
90°	0	0	0	0	0	3
95°	26	105	472	164	101	30
105°	108	164	708	1250	1188	114
115°	201	242	537	1137	1335	198
125°	283	314	512	850	1016	253
135°	346	375	506	718	812	267
145°	408	429	510	621	677	255
155°	466	477	522	562	584	216
165°	515	517	528	540	548	145
175°	540	537	535	532	528	51
180°	536	536	536	536	536	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1885.8	1885.8	1885.8	1885.8	1885.8
2.5°	1896.9	1880.5	1885.8	1881.4	1874.6
5°	1892.7	1874.0	1880.5	1875.2	1873.5
7.5°	1879.1	1860.3	1869.0	1865.5	1863.8
10°	1866.6	1847.8	1857.8	1854.3	1852.6
12.5°	1849.8	1832.4	1843.9	1840.4	1840.0
15°	1821.2	1805.8	1821.2	1821.1	1819.4
17.5°	1785.2	1771.2	1787.6	1788.7	1787.6
20°	1760.0	1744.7	1765.3	1763.6	1765.3
22.5°	1729.3	1716.7	1738.7	1734.2	1736.0
25°	1681.5	1669.5	1693.7	1688.5	1688.5
27.5°	1624.9	1616.4	1642.7	1637.1	1637.1
30°	1587.2	1578.6	1606.4	1599.4	1599.4
32.5°	1545.3	1539.5	1565.9	1557.5	1557.5
35°	1478.9	1475.5	1501.6	1491.2	1491.2
37.5°	1410.5	1407.4	1431.1	1418.4	1414.3
40°	1360.2	1358.5	1379.4	1365.4	1365.4
42.5°	1309.9	1308.2	1326.3	1309.6	1309.6
45°	1232.7	1229.3	1241.5	1225.7	1222.3
47.5°	1148.6	1145.2	1152.8	1135.6	1133.9
50°	1091.3	1087.9	1091.3	1075.5	1073.8
52.5°	1032.6	1026.5	1027.0	1011.3	1011.0
55°	942.9	930.9	930.7	916.7	916.7
57.5°	847.9	832.2	833.6	821.7	820.0
60°	782.2	765.2	766.5	756.0	754.3
62.5°	718.0	698.2	702.3	690.4	690.0
65°	611.1	597.5	598.9	593.7	593.7
67.5°	508.5	495.8	505.0	500.8	500.4
70°	433.0	424.5	436.5	436.5	434.8
72.5°	363.2	362.8	377.9	377.9	378.9
75°	263.7	275.6	291.6	293.3	293.3
77.5°	176.0	197.2	214.8	215.5	215.1
80°	125.7	149.6	165.9	169.3	167.6
82.5°	85.2	110.5	124.0	127.4	125.7
85°	38.4	58.9	69.8	71.6	69.8
87.5°	11.2	23.5	27.9	27.9	25.1
90°	0.0	0.0	0.0	0.0	0.0
92.5°	8.1	43.2	100.2	29.2	22.0
95°	26.5	105.1	472.5	163.5	100.8
97.5°	48.7	123.2	727.7	520.7	356.8
100°	64.2	133.8	783.1	793.2	611.0
102.5°	81.3	145.4	770.8	1015.3	856.2
105°	107.9	163.7	707.7	1250.1	1188.4
107.5°	135.0	185.0	634.0	1316.3	1371.2
110°	153.8	200.6	591.6	1290.9	1414.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	171.7	216.1	563.1	1231.0	1407.1
115°	200.6	242.4	536.6	1136.8	1335.0
117.5°	226.1	265.3	521.0	1033.9	1243.7
120°	246.4	279.3	519.3	975.0	1176.1
122.5°	262.7	295.6	515.3	923.4	1110.1
125°	283.1	314.0	512.2	850.0	1016.3
127.5°	305.3	334.2	510.6	806.1	943.1
130°	316.7	345.6	508.1	775.6	895.1
132.5°	328.9	357.0	508.1	751.8	861.7
135°	346.2	375.1	506.1	718.0	811.6
137.5°	362.5	390.6	505.9	689.4	770.2
140°	374.7	403.6	505.1	665.7	743.4
142.5°	388.6	412.7	507.5	646.8	716.5
145°	408.3	429.2	510.2	621.4	677.2
147.5°	425.2	445.6	514.6	595.8	644.0
150°	439.9	453.8	516.3	587.3	621.2
152.5°	451.3	466.0	517.9	575.8	607.3
155°	466.4	477.3	522.4	561.6	584.5
157.5°	485.1	491.7	523.4	555.1	571.5
160°	494.9	499.9	527.5	550.2	564.1
162.5°	500.6	506.4	528.3	546.1	556.8
165°	515.3	517.2	528.5	539.9	547.8
167.5°	525.2	523.4	533.2	538.3	541.5
170°	528.5	527.5	531.5	532.7	536.6
172.5°	535.8	532.4	534.0	531.0	534.2
175°	539.7	536.7	534.6	531.5	527.5
177.5°	541.3	536.5	534.0	530.8	531.5
180°	535.6	535.6	535.6	535.6	535.6

(END OF REPORT)