

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: P561718

Luminaire Tested: **SQ4-PC3-125U-125D-92765-1D-UNV-STD-W-4 (5700K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561718
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-PC3-125U-125D-92765-1D-UNV-STD-W-4 (5700K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

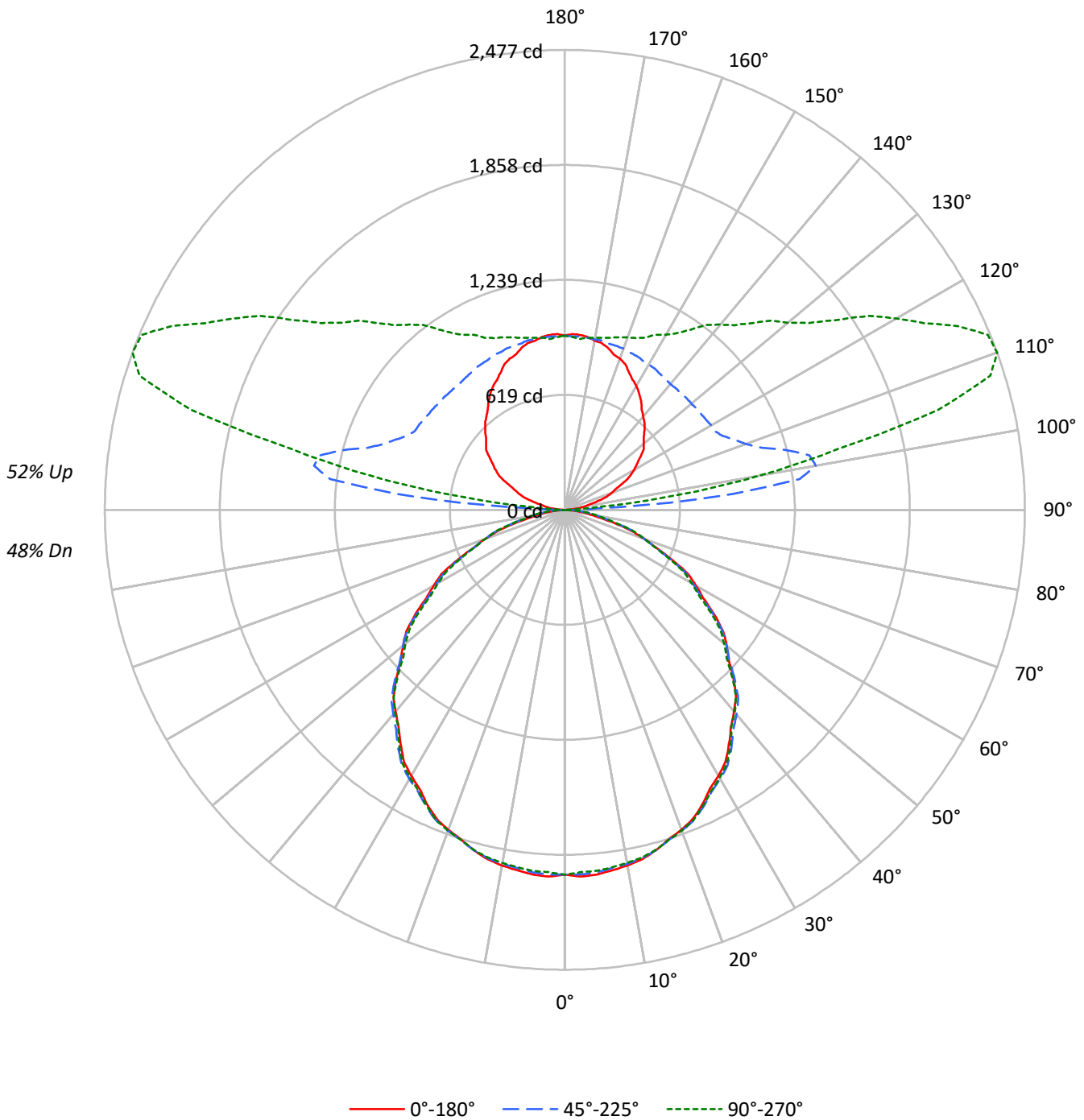
Lumens per Lamp: N/A
Luminaire Lumens: 11190.1 lumens
Efficiency: N/A
Efficacy: 115.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 97
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	107	107	107	107	98	98	98	98	82	82	82	68	68	68	54	54	54	48
1	97	93	89	86	89	86	83	80	72	70	68	60	58	56	48	47	46	41
2	89	81	75	70	81	75	70	65	63	59	56	52	50	47	42	40	39	34
3	81	71	64	58	74	66	60	54	56	51	47	46	43	40	37	35	33	29
4	74	63	55	49	68	58	51	46	49	44	40	41	37	34	33	31	28	25
5	68	56	48	42	62	52	45	40	44	39	34	37	33	29	30	27	25	21
6	62	50	42	36	57	47	40	34	40	34	30	33	29	26	27	24	22	19
7	58	45	37	32	53	42	35	30	36	30	26	30	26	23	25	22	19	17
8	53	41	33	28	49	38	31	27	33	27	23	28	23	20	23	20	17	15
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	15	13
10	46	34	27	22	43	32	26	21	28	22	19	23	19	16	19	16	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18129	18129	18129
5°	18266	18148	18080
10°	18222	18137	18085
15°	18126	18126	18108
20°	18007	18060	18060
25°	17836	17966	17911
30°	17620	17833	17755
35°	17358	17623	17501
40°	17070	17311	17136
45°	16760	16879	16618
50°	16321	16321	16060
55°	15804	15600	15365
60°	15041	14738	14504
65°	13902	13625	13505
70°	12171	12271	12220
75°	9792	10830	10897
80°	6960	9181	9282
85°	4234	7707	7707



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.0	1.7
10°-20°	533.7	4.8
20°-30°	808.2	7.2
30°-40°	968.9	8.7
40°-50°	987.9	8.8
50°-60°	862.4	7.7
60°-70°	617.4	5.5
70°-80°	318.0	2.8
80°-90°	80.4	0.7
90°-100°	427.5	3.8
100°-110°	1216.3	10.9
110°-120°	1165.4	10.4
120°-130°	922.3	8.2
130°-140°	740.3	6.6
140°-150°	579.6	5.2
150°-160°	424.1	3.8
160°-170°	262.7	2.3
170°-180°	89.1	0.8
0°-30°	1527.8	13.7
0°-40°	2496.7	22.3
0°-60°	4347.0	38.8
0°-90°	5362.8	47.9
90°-120°	2809.1	25.1
90°-150°	5051.4	45.1
90°-180°	5827.0	52.1
0°-180°	11190.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1965	1965	1965	1965	1965	
5°	1972	1953	1960	1954	1952	187
15°	1898	1882	1898	1898	1896	535
25°	1752	1740	1765	1759	1759	806
35°	1541	1538	1565	1554	1554	964
45°	1284	1281	1294	1277	1274	989
55°	982	970	970	955	955	876
65°	637	623	624	619	619	630
75°	275	287	304	306	306	297
85°	40	61	73	75	73	54
90°	0	0	0	0	0	4
95°	46	184	828	286	177	53
105°	189	287	1240	2189	2081	200
115°	351	425	940	1991	2338	346
125°	496	550	897	1489	1780	444
135°	606	657	886	1258	1421	468
145°	715	752	894	1088	1186	447
155°	817	836	915	984	1024	378
165°	902	906	926	946	960	254
175°	945	940	936	931	924	90
180°	938	938	938	938	938	

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CATALOG NUMBER: SQ4-PC3-125U-125D-92765-1D-UNV-STD-W-4 (5700K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1965.0	1965.0	1965.0	1965.0	1965.0
2.5°	1976.6	1959.5	1965.0	1960.5	1953.3
5°	1972.3	1952.7	1959.5	1954.0	1952.2
7.5°	1958.1	1938.5	1947.5	1943.8	1942.1
10°	1945.0	1925.4	1935.9	1932.2	1930.4
12.5°	1927.5	1909.4	1921.3	1917.7	1917.3
15°	1897.7	1881.7	1897.7	1897.6	1895.8
17.5°	1860.2	1845.6	1862.7	1863.8	1862.7
20°	1834.0	1818.0	1839.4	1837.7	1839.4
22.5°	1802.0	1788.8	1811.8	1807.1	1808.9
25°	1752.1	1739.7	1764.8	1759.4	1759.4
27.5°	1693.2	1684.3	1711.7	1705.9	1705.9
30°	1653.9	1645.0	1673.9	1666.6	1666.6
32.5°	1610.2	1604.1	1631.7	1622.9	1622.9
35°	1541.1	1537.5	1564.7	1553.8	1553.8
37.5°	1469.7	1466.5	1491.2	1478.0	1473.7
40°	1417.3	1415.6	1437.3	1422.8	1422.8
42.5°	1364.9	1363.2	1382.0	1364.6	1364.6
45°	1284.5	1281.0	1293.6	1277.2	1273.6
47.5°	1196.8	1193.3	1201.2	1183.3	1181.5
50°	1137.1	1133.6	1137.1	1120.7	1118.9
52.5°	1076.0	1069.6	1070.2	1053.8	1053.4
55°	982.5	970.0	969.8	955.2	955.2
57.5°	883.5	867.1	868.6	856.2	854.4
60°	815.1	797.3	798.7	787.8	786.0
62.5°	748.1	727.5	731.8	719.4	719.0
65°	636.8	622.6	624.1	618.6	618.6
67.5°	529.8	516.7	526.2	521.8	521.4
70°	451.2	442.3	454.9	454.8	453.0
72.5°	378.4	378.1	393.7	393.7	394.8
75°	274.7	287.2	303.8	305.7	305.7
77.5°	183.4	205.5	223.8	224.5	224.2
80°	131.0	155.9	172.8	176.4	174.7
82.5°	88.8	115.1	129.2	132.8	131.0
85°	40.0	61.4	72.8	74.6	72.8
87.5°	11.6	24.5	29.1	29.0	26.2
90°	0.0	0.0	0.0	0.0	0.0
92.5°	14.3	75.7	175.5	51.1	38.5
95°	46.4	184.1	827.5	286.4	176.6
97.5°	85.2	215.7	1274.5	912.0	624.9
100°	112.4	234.4	1371.5	1389.2	1070.1
102.5°	142.3	254.6	1350.1	1778.2	1499.5
105°	189.0	286.7	1239.5	2189.4	2081.3
107.5°	236.5	324.0	1110.4	2305.4	2401.6
110°	269.3	351.3	1036.2	2261.0	2477.2

TEST NUMBER: P561718

CATALOG NUMBER: SQ4-PC3-125U-125D-92765-1D-UNV-STD-W-4 (5700K)

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	300.7	378.5	986.3	2156.1	2464.4
115°	351.3	424.6	939.9	1991.1	2338.1
117.5°	395.9	464.6	912.4	1810.7	2178.3
120°	431.6	489.1	909.6	1707.7	2059.9
122.5°	460.1	517.7	902.4	1617.2	1944.3
125°	495.8	549.9	897.1	1488.7	1779.9
127.5°	534.7	585.3	894.2	1411.9	1651.8
130°	554.7	605.2	890.0	1358.4	1567.7
132.5°	576.1	625.2	890.0	1316.7	1509.2
135°	606.4	657.0	886.4	1257.5	1421.4
137.5°	634.9	684.1	886.0	1207.4	1349.0
140°	656.3	706.9	884.6	1165.9	1301.9
142.5°	680.6	722.8	888.9	1132.8	1254.8
145°	715.2	751.8	893.5	1088.4	1186.0
147.5°	744.8	780.4	901.4	1043.5	1127.9
150°	770.5	794.9	904.2	1028.6	1087.9
152.5°	790.4	816.2	907.1	1008.6	1063.7
155°	816.8	836.0	914.9	983.6	1023.7
157.5°	849.6	861.2	916.7	972.3	1000.9
160°	866.8	875.5	923.8	963.6	988.0
162.5°	876.8	886.9	925.3	956.4	975.2
165°	902.4	905.9	925.6	945.6	959.5
167.5°	919.9	916.8	933.8	942.9	948.4
170°	925.6	923.9	931.0	932.9	939.9
172.5°	938.5	932.5	935.3	930.0	935.6
175°	945.2	940.0	936.3	930.8	923.8
177.5°	948.1	939.7	935.3	929.6	931.0
180°	938.1	938.1	938.1	938.1	938.1

(END OF REPORT)