

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: P561690

Luminaire Tested: **SQ4-PC3-125U-075D-92765-1D-UNV-STD-W-4 (4500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561690
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-075D-92765-1D-UNV-STD-W-4 (4500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

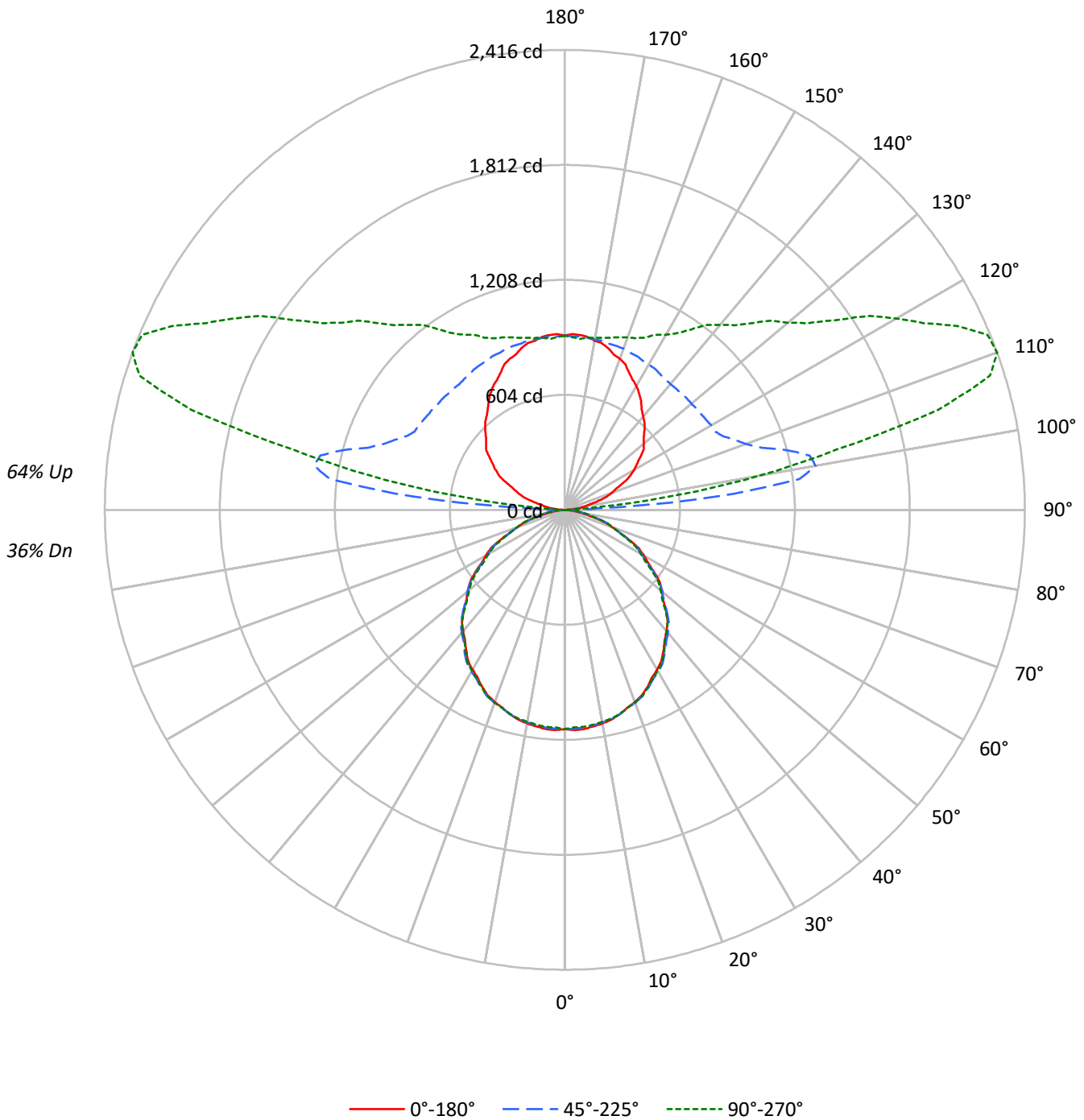
Lumens per Lamp: N/A
Luminaire Lumens: 8824.7 lumens
Efficiency: N/A
Efficacy: 120.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 73.3
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	104	104	104	104	94	94	94	94	75	75	75	58	58	58	43	43	43	36
1	95	90	87	83	85	82	79	76	66	64	62	51	50	49	38	37	36	30
2	86	79	73	68	78	72	67	62	58	54	51	45	43	41	33	32	31	25
3	79	69	62	56	71	63	57	52	51	47	43	40	37	34	30	28	26	21
4	72	61	54	48	65	56	49	44	45	40	36	35	32	29	26	24	22	18
5	66	54	46	41	59	50	43	38	40	35	31	32	28	25	24	21	19	16
6	60	49	41	35	55	44	37	32	36	31	27	29	25	22	21	19	17	14
7	56	44	36	31	50	40	33	28	33	28	24	26	22	19	20	17	15	12
8	52	40	32	27	47	36	30	25	30	25	21	24	20	17	18	15	13	11
9	48	36	29	24	43	33	27	22	27	22	19	22	18	15	17	14	12	10
10	45	33	26	21	41	30	24	20	25	20	17	20	16	14	15	13	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10622	10622	10622
5°	10703	10633	10594
10°	10676	10627	10597
15°	10620	10620	10610
20°	10551	10582	10582
25°	10451	10527	10495
30°	10323	10449	10403
35°	10169	10326	10254
40°	10001	10143	10040
45°	9820	9890	9736
50°	9564	9564	9410
55°	9260	9140	9003
60°	8813	8636	8497
65°	8145	7981	7914
70°	7132	7189	7159
75°	5739	6345	6384
80°	4081	5382	5435
85°	2488	4510	4510



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.0	1.2
10°-20°	312.7	3.5
20°-30°	473.5	5.4
30°-40°	567.7	6.4
40°-50°	578.8	6.6
50°-60°	505.3	5.7
60°-70°	361.8	4.1
70°-80°	186.3	2.1
80°-90°	47.1	0.5
90°-100°	416.8	4.7
100°-110°	1186.1	13.4
110°-120°	1136.4	12.9
120°-130°	899.4	10.2
130°-140°	721.9	8.2
140°-150°	565.2	6.4
150°-160°	413.5	4.7
160°-170°	256.2	2.9
170°-180°	86.9	1.0
0°-30°	895.2	10.1
0°-40°	1462.9	16.6
0°-60°	2547.0	28.9
0°-90°	3142.2	35.6
90°-120°	2739.4	31.0
90°-150°	4925.9	55.8
90°-180°	5682.0	64.4
0°-180°	8824.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1151	1151	1151	1151	1151	
5°	1156	1144	1148	1145	1144	110
15°	1112	1102	1112	1112	1111	314
25°	1027	1019	1034	1031	1031	472
35°	903	901	917	910	910	565
45°	753	750	758	748	746	579
55°	576	568	568	560	560	513
65°	373	365	366	362	362	369
75°	161	168	178	179	179	174
85°	24	36	43	44	43	32
90°	0	0	0	0	0	3
95°	45	180	807	279	172	52
105°	184	280	1209	2135	2030	195
115°	343	414	916	1942	2280	337
125°	484	536	875	1452	1736	433
135°	591	641	864	1226	1386	456
145°	697	733	871	1061	1157	436
155°	796	815	892	959	998	368
165°	880	883	903	922	936	247
175°	922	917	913	908	901	87
180°	915	915	915	915	915	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1151.3	1151.3	1151.3	1151.3	1151.3
2.5°	1158.1	1148.1	1151.3	1148.7	1144.5
5°	1155.6	1144.1	1148.1	1144.9	1143.9
7.5°	1147.3	1135.8	1141.1	1138.9	1137.9
10°	1139.6	1128.1	1134.3	1132.1	1131.1
12.5°	1129.4	1118.7	1125.7	1123.6	1123.4
15°	1111.9	1102.5	1111.9	1111.9	1110.8
17.5°	1089.9	1081.4	1091.4	1092.0	1091.4
20°	1074.6	1065.2	1077.8	1076.7	1077.8
22.5°	1055.8	1048.1	1061.6	1058.8	1059.9
25°	1026.6	1019.3	1034.1	1030.9	1030.9
27.5°	992.1	986.8	1002.9	999.5	999.5
30°	969.0	963.8	980.8	976.5	976.5
32.5°	943.4	939.9	956.0	950.9	950.9
35°	902.9	900.8	916.8	910.4	910.4
37.5°	861.1	859.3	873.7	866.0	863.5
40°	830.4	829.4	842.2	833.6	833.6
42.5°	799.7	798.7	809.8	799.5	799.5
45°	752.6	750.5	758.0	748.3	746.2
47.5°	701.2	699.2	703.8	693.3	692.3
50°	666.3	664.2	666.3	656.7	655.6
52.5°	630.5	626.7	627.0	617.4	617.2
55°	575.7	568.4	568.2	559.7	559.7
57.5°	517.7	508.1	508.9	501.7	500.6
60°	477.6	467.2	468.0	461.6	460.5
62.5°	438.4	426.3	428.8	421.5	421.3
65°	373.1	364.8	365.6	362.5	362.5
67.5°	310.4	302.7	308.3	305.7	305.5
70°	264.4	259.2	266.5	266.5	265.4
72.5°	221.7	221.5	230.7	230.7	231.3
75°	161.0	168.3	178.0	179.1	179.1
77.5°	107.5	120.4	131.1	131.5	131.3
80°	76.8	91.3	101.3	103.4	102.3
82.5°	52.0	67.4	75.7	77.8	76.8
85°	23.5	36.0	42.6	43.7	42.6
87.5°	6.8	14.3	17.1	17.0	15.4
90°	0.0	0.0	0.0	0.0	0.0
92.5°	13.9	73.8	171.1	49.8	37.6
95°	45.2	179.6	807.0	279.3	172.2
97.5°	83.1	210.3	1242.8	889.3	609.4
100°	109.6	228.6	1337.4	1354.7	1043.5
102.5°	138.8	248.3	1316.6	1734.0	1462.3
105°	184.4	279.6	1208.7	2135.1	2029.6
107.5°	230.6	316.0	1082.8	2248.1	2342.0
110°	262.6	342.5	1010.5	2204.9	2415.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	293.2	369.1	961.8	2102.5	2403.2
115°	342.6	414.0	916.5	1941.7	2280.1
117.5°	386.1	453.1	889.8	1765.8	2124.2
120°	420.9	477.0	887.0	1665.2	2008.8
122.5°	448.7	504.8	880.0	1577.0	1896.1
125°	483.5	536.2	874.8	1451.7	1735.7
127.5°	521.4	570.7	872.0	1376.8	1610.8
130°	540.9	590.2	867.9	1324.7	1528.7
132.5°	561.8	609.7	867.9	1284.0	1471.7
135°	591.3	640.6	864.4	1226.3	1386.1
137.5°	619.1	667.1	864.0	1177.4	1315.5
140°	640.0	689.3	862.6	1137.0	1269.6
142.5°	663.7	704.8	866.8	1104.6	1223.7
145°	697.4	733.1	871.3	1061.3	1156.6
147.5°	726.3	761.0	879.0	1017.6	1099.9
150°	751.3	775.1	881.8	1003.1	1060.9
152.5°	770.8	796.0	884.5	983.5	1037.2
155°	796.5	815.2	892.2	959.2	998.3
157.5°	828.5	839.8	893.9	948.1	976.0
160°	845.2	853.7	900.9	939.7	963.5
162.5°	855.0	864.8	902.3	932.6	951.0
165°	880.0	883.4	902.6	922.1	935.7
167.5°	897.1	894.0	910.6	919.5	924.9
170°	902.6	900.9	907.9	909.7	916.5
172.5°	915.2	909.4	912.0	906.9	912.4
175°	921.8	916.7	913.1	907.7	900.9
177.5°	924.5	916.4	912.0	906.5	907.9
180°	914.8	914.8	914.8	914.8	914.8

(END OF REPORT)