

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: P563008

Luminaire Tested: **SQ4-PC3-125U-050D-940-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563008
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, 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-050D-940-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

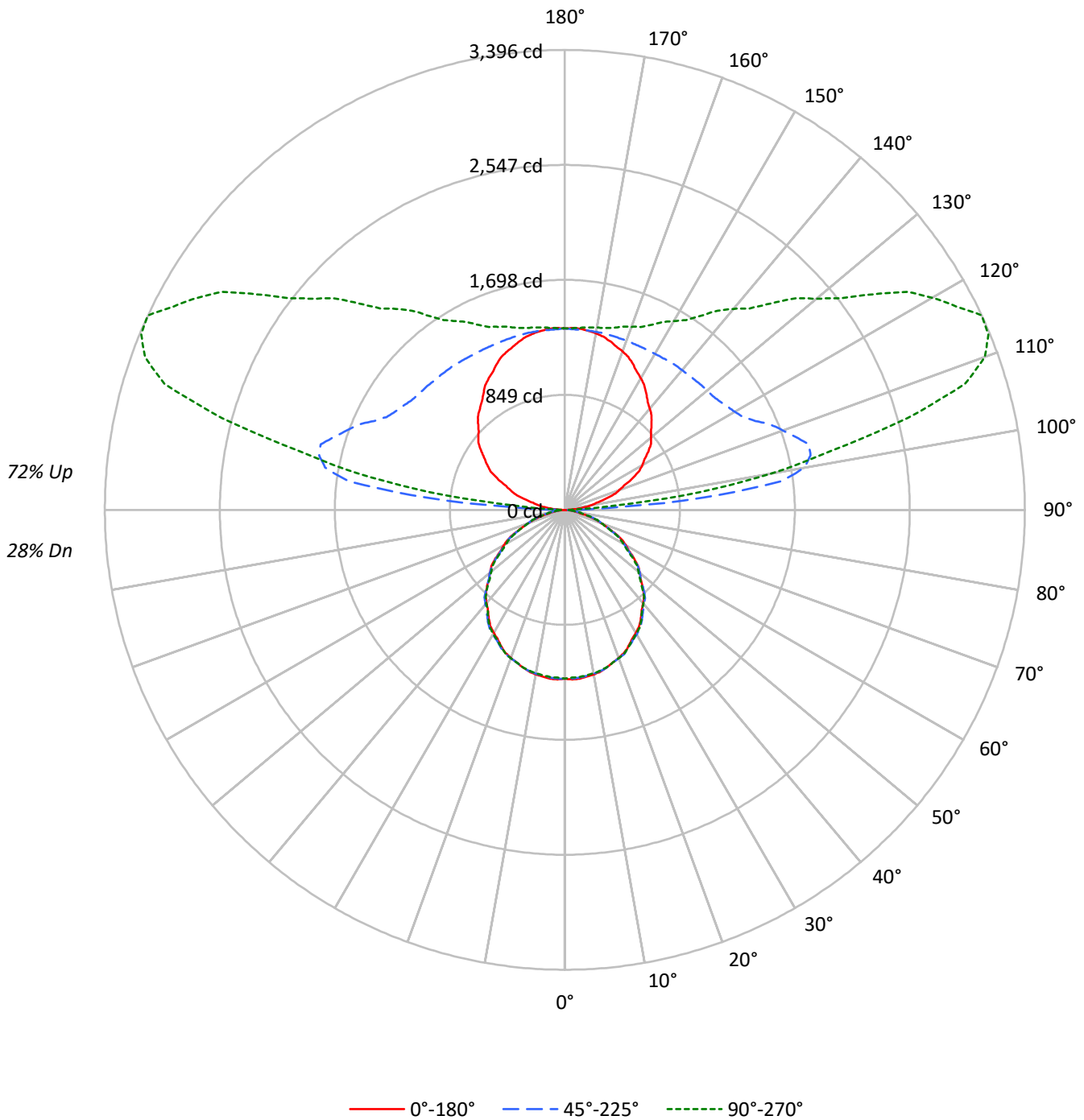
Lumens per Lamp: N/A
Luminaire Lumens: 12049.3 lumens
Efficiency: N/A
Efficacy: 124.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 96.8
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	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36	28
1	93	89	85	82	83	80	76	74	62	60	58	47	45	44	32	31	31	24
2	85	77	72	67	75	70	65	60	55	51	48	41	39	37	28	27	26	20
3	77	68	61	55	69	61	55	50	48	44	40	36	33	31	25	23	22	17
4	70	60	52	47	63	54	48	43	43	38	34	32	29	26	22	20	19	14
5	65	53	46	40	57	48	41	36	38	33	29	29	25	23	20	18	16	13
6	59	48	40	34	53	43	36	31	34	29	26	26	22	20	18	16	14	11
7	55	43	35	30	49	39	32	27	31	26	22	23	20	17	16	14	13	10
8	51	39	31	26	45	35	29	24	28	23	20	21	18	15	15	13	11	9
9	47	35	28	23	42	32	26	21	26	21	17	20	16	14	14	12	10	8
10	44	32	25	21	39	29	23	19	23	19	16	18	15	12	13	11	9	7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5751	5751	5751
5°	5794	5757	5736
10°	5780	5753	5737
15°	5750	5750	5745
20°	5712	5729	5729
25°	5659	5699	5682
30°	5589	5657	5633
35°	5507	5591	5552
40°	5416	5492	5436
45°	5317	5355	5272
50°	5178	5178	5095
55°	5014	4949	4874
60°	4772	4676	4601
65°	4410	4321	4284
70°	3862	3893	3876
75°	3107	3436	3456
80°	2208	2914	2943
85°	1344	2445	2445



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.0	1.0
10°-20°	338.6	2.8
20°-30°	512.8	4.3
30°-40°	614.7	5.1
40°-50°	626.8	5.2
50°-60°	547.2	4.5
60°-70°	391.7	3.3
70°-80°	201.8	1.7
80°-90°	54.2	0.4
90°-100°	626.4	5.2
100°-110°	1687.3	14.0
110°-120°	1770.7	14.7
120°-130°	1436.9	11.9
130°-140°	1126.9	9.4
140°-150°	865.2	7.2
150°-160°	622.1	5.2
160°-170°	380.0	3.2
170°-180°	128.2	1.1
0°-30°	969.3	8.0
0°-40°	1584.1	13.1
0°-60°	2758.0	22.9
0°-90°	3405.7	28.3
90°-120°	4084.4	33.9
90°-150°	7513.4	62.4
90°-180°	8644.0	71.7
0°-180°	12049.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1247	1247	1247	1247	1247	
5°	1251	1239	1243	1240	1239	119
15°	1204	1194	1204	1204	1203	339
25°	1112	1104	1120	1116	1116	512
35°	978	976	993	986	986	611
45°	815	813	821	810	808	627
55°	623	616	615	606	606	556
65°	404	395	396	392	392	400
75°	174	182	193	194	194	188
85°	25	39	46	47	46	35
90°	3	10	20	22	22	8
95°	96	341	1027	525	363	100
105°	312	486	1866	2792	2620	328
115°	551	674	1554	3002	3396	542
125°	752	864	1395	2358	2775	672
135°	906	1011	1356	1902	2154	699
145°	1047	1129	1339	1626	1747	657
155°	1189	1232	1327	1459	1506	547
165°	1290	1304	1332	1385	1392	364
175°	1341	1339	1334	1352	1349	127
180°	1339	1339	1339	1339	1339	

TEST NUMBER: P563008

CATALOG NUMBER: SQ4-PC3-125U-050D-940-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1246.7	1246.7	1246.7	1246.7	1246.7
2.5°	1254.1	1243.3	1246.7	1243.8	1239.3
5°	1251.3	1238.9	1243.3	1239.8	1238.6
7.5°	1242.3	1229.9	1235.6	1233.3	1232.2
10°	1234.0	1221.6	1228.2	1225.9	1224.8
12.5°	1222.9	1211.4	1219.0	1216.7	1216.5
15°	1204.0	1193.8	1204.0	1204.0	1202.9
17.5°	1180.2	1171.0	1181.8	1182.5	1181.8
20°	1163.6	1153.4	1167.1	1165.9	1167.1
22.5°	1143.3	1134.9	1149.5	1146.5	1147.7
25°	1111.7	1103.8	1119.7	1116.3	1116.3
27.5°	1074.3	1068.6	1086.0	1082.3	1082.3
30°	1049.3	1043.7	1062.0	1057.4	1057.4
32.5°	1021.6	1017.8	1035.2	1029.7	1029.7
35°	977.8	975.5	992.8	985.8	985.8
37.5°	932.5	930.5	946.1	937.7	935.0
40°	899.3	898.1	912.0	902.7	902.7
42.5°	866.0	864.9	876.9	865.8	865.8
45°	815.0	812.7	820.8	810.3	808.1
47.5°	759.3	757.1	762.1	750.8	749.6
50°	721.5	719.2	721.5	711.1	709.9
52.5°	682.7	678.6	679.0	668.6	668.4
55°	623.4	615.5	615.3	606.0	606.0
57.5°	560.6	550.2	551.1	543.2	542.1
60°	517.2	505.9	506.8	499.8	498.7
62.5°	474.7	461.6	464.3	456.4	456.2
65°	404.0	395.0	395.9	392.5	392.5
67.5°	336.2	327.8	333.8	331.1	330.8
70°	286.3	280.6	288.6	288.6	287.4
72.5°	240.1	239.9	249.8	249.8	250.5
75°	174.3	182.2	192.8	193.9	193.9
77.5°	116.4	130.4	142.0	142.4	142.2
80°	83.1	98.9	109.7	111.9	110.8
82.5°	56.3	73.0	82.0	84.2	83.1
85°	25.4	38.9	46.2	47.3	46.2
87.5°	8.1	17.5	22.6	22.9	21.1
90°	3.4	10.1	20.5	22.2	22.2
92.5°	41.6	147.0	290.6	139.9	97.2
95°	95.5	340.7	1026.8	525.1	363.3
97.5°	152.5	390.0	1610.5	1345.4	1014.5
100°	196.2	409.6	1796.1	1879.2	1559.0
102.5°	238.5	437.2	1857.5	2278.9	2016.1
105°	312.1	485.6	1866.0	2791.7	2619.9
107.5°	381.7	536.5	1786.5	3055.2	3099.5
110°	428.1	574.9	1714.2	3137.0	3298.7

TEST NUMBER: P563008

CATALOG NUMBER: SQ4-PC3-125U-050D-940-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	477.2	613.3	1644.6	3118.9	3384.7
115°	550.9	674.3	1553.9	3002.4	3396.0
117.5°	618.1	733.9	1483.6	2816.4	3254.7
120°	661.8	773.5	1448.1	2683.0	3133.3
122.5°	700.0	810.4	1422.2	2546.5	2995.5
125°	752.2	863.9	1395.2	2358.2	2775.1
127.5°	802.3	912.4	1378.2	2192.0	2564.3
130°	832.4	942.4	1371.3	2096.9	2423.7
132.5°	862.4	971.1	1364.5	2013.0	2313.2
135°	905.7	1010.8	1356.0	1902.4	2154.2
137.5°	947.0	1047.7	1351.6	1808.6	2015.4
140°	975.6	1072.4	1347.5	1750.8	1937.6
142.5°	1005.7	1095.7	1344.7	1697.0	1854.4
145°	1047.3	1129.0	1338.9	1626.5	1746.6
147.5°	1092.3	1163.3	1333.1	1567.3	1661.6
150°	1122.3	1184.0	1330.4	1530.0	1608.4
152.5°	1149.6	1203.3	1329.0	1499.7	1563.4
155°	1188.8	1232.2	1327.0	1459.4	1506.1
157.5°	1223.3	1257.0	1327.3	1431.1	1462.4
160°	1245.1	1273.5	1328.7	1414.5	1437.9
162.5°	1264.2	1287.2	1330.1	1400.7	1417.4
165°	1289.5	1304.5	1332.1	1385.1	1391.8
167.5°	1309.9	1318.6	1333.8	1373.1	1375.8
170°	1323.6	1326.9	1333.8	1366.2	1366.2
172.5°	1331.8	1332.4	1335.2	1359.4	1359.4
175°	1340.6	1339.0	1333.8	1352.5	1349.2
177.5°	1344.4	1341.7	1334.8	1345.7	1343.0
180°	1338.9	1338.9	1338.9	1338.9	1338.9

(END OF REPORT)