

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: P561705

Luminaire Tested: **SQ4-PC3-125U-100D-92765-1D-UNV-STD-W-4 (5700K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561705
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-100D-92765-1D-UNV-STD-W-4 (5700K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS
DOWNLIGHT 1000 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

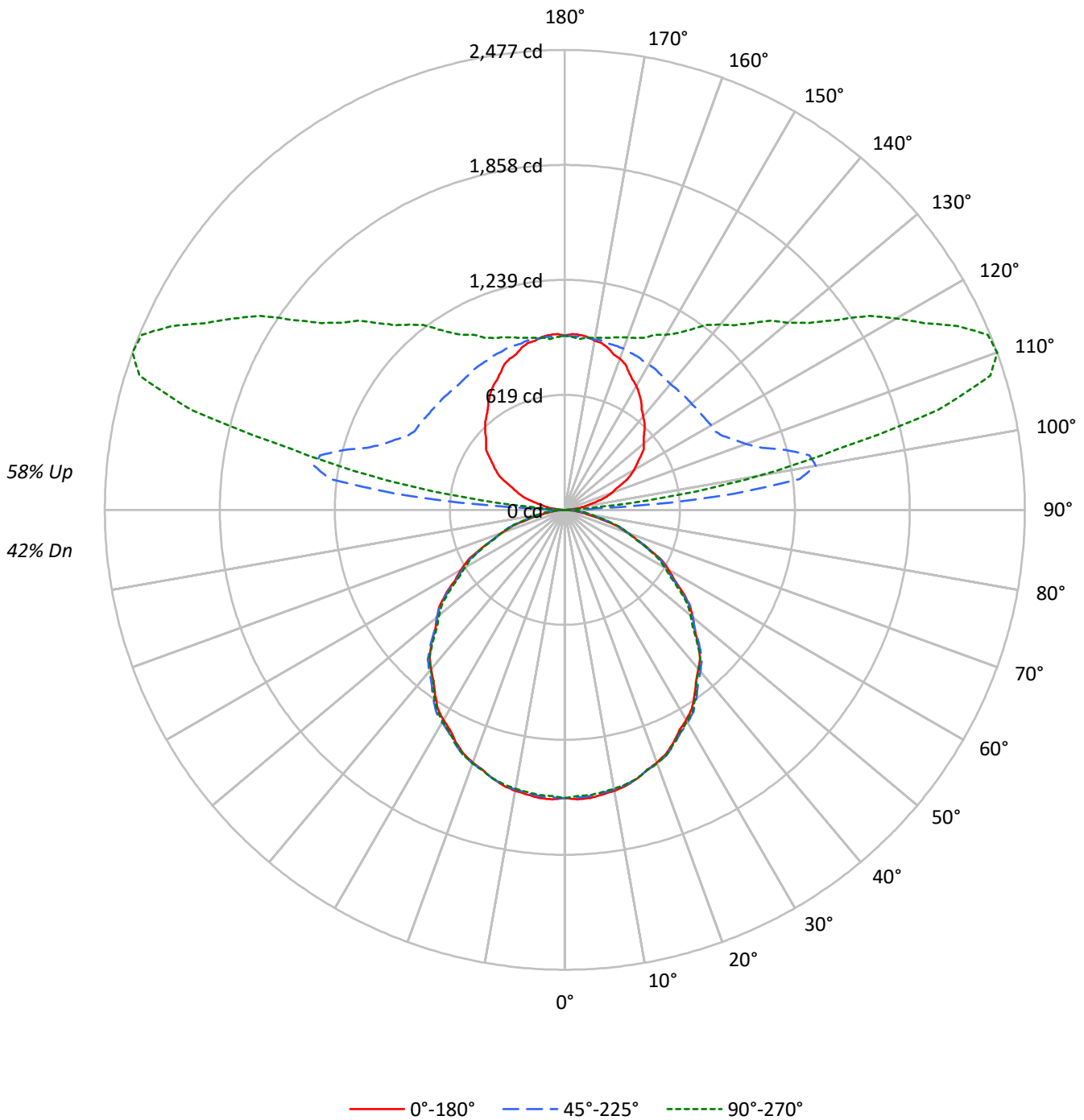
Lumens per Lamp: N/A
Luminaire Lumens: 10063.1 lumens
Efficiency: N/A
Efficacy: 120.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 83.7
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	105	105	105	105	96	96	96	96	79	79	79	63	63	63	49	49	49	42
1	96	92	88	85	88	84	81	78	69	67	65	56	54	53	43	42	41	36
2	87	80	74	69	80	73	68	64	61	57	54	49	46	44	38	36	35	30
3	80	70	63	57	73	65	58	53	53	49	45	43	40	37	34	32	30	25
4	73	62	54	48	66	57	50	45	47	42	38	38	35	32	30	28	25	22
5	67	55	47	41	61	51	44	39	42	37	33	34	31	27	27	24	22	19
6	62	50	42	36	56	46	39	33	38	33	29	31	27	24	24	22	19	16
7	57	45	37	31	52	41	34	29	34	29	25	28	24	21	22	19	17	15
8	53	40	33	28	48	37	31	26	31	26	22	26	22	19	20	18	15	13
9	49	37	29	24	45	34	27	23	29	24	20	24	20	17	19	16	14	12
10	46	34	27	22	42	31	25	21	26	21	18	22	18	15	17	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14319	14319	14319
5°	14427	14334	14281
10°	14392	14324	14284
15°	14317	14317	14303
20°	14223	14265	14265
25°	14088	14191	14146
30°	13917	14085	14024
35°	13709	13920	13823
40°	13483	13673	13535
45°	13238	13332	13125
50°	12892	12892	12686
55°	12482	12321	12136
60°	11880	11642	11455
65°	10981	10761	10667
70°	9614	9692	9652
75°	7735	8555	8605
80°	5499	7252	7332
85°	3345	6087	6087



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.9	1.5
10°-20°	421.5	4.2
20°-30°	638.3	6.3
30°-40°	765.3	7.6
40°-50°	780.3	7.8
50°-60°	681.2	6.8
60°-70°	487.7	4.8
70°-80°	251.2	2.5
80°-90°	63.5	0.6
90°-100°	427.5	4.2
100°-110°	1216.3	12.1
110°-120°	1165.4	11.6
120°-130°	922.3	9.2
130°-140°	740.3	7.4
140°-150°	579.6	5.8
150°-160°	424.1	4.2
160°-170°	262.7	2.6
170°-180°	89.1	0.9
0°-30°	1206.7	12.0
0°-40°	1972.0	19.6
0°-60°	3433.5	34.1
0°-90°	4235.8	42.1
90°-120°	2809.1	27.9
90°-150°	5051.4	50.2
90°-180°	5827.0	57.9
0°-180°	10063.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1552	1552	1552	1552	1552	
5°	1558	1542	1548	1543	1542	148
15°	1499	1486	1499	1499	1497	423
25°	1384	1374	1394	1390	1390	637
35°	1217	1214	1236	1227	1227	761
45°	1015	1012	1022	1009	1006	781
55°	776	766	766	754	754	692
65°	503	492	493	489	489	497
75°	217	227	240	241	241	235
85°	32	48	58	59	58	43
90°	0	0	0	0	0	3
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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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1552.0	1552.0	1552.0	1552.0	1552.0
2.5°	1561.2	1547.7	1552.0	1548.5	1542.8
5°	1557.8	1542.3	1547.7	1543.4	1542.0
7.5°	1546.6	1531.1	1538.2	1535.3	1533.9
10°	1536.2	1520.8	1529.0	1526.1	1524.7
12.5°	1522.4	1508.1	1517.5	1514.7	1514.4
15°	1498.9	1486.2	1498.9	1498.8	1497.4
17.5°	1469.3	1457.7	1471.3	1472.1	1471.3
20°	1448.6	1435.9	1452.9	1451.5	1452.9
22.5°	1423.3	1412.9	1431.0	1427.3	1428.7
25°	1383.9	1374.1	1394.0	1389.6	1389.6
27.5°	1337.3	1330.3	1352.0	1347.4	1347.4
30°	1306.3	1299.3	1322.1	1316.4	1316.4
32.5°	1271.8	1267.0	1288.8	1281.9	1281.9
35°	1217.2	1214.4	1235.9	1227.3	1227.3
37.5°	1160.9	1158.3	1177.8	1167.4	1164.0
40°	1119.5	1118.1	1135.3	1123.8	1123.8
42.5°	1078.1	1076.7	1091.6	1077.8	1077.8
45°	1014.6	1011.8	1021.8	1008.8	1005.9
47.5°	945.3	942.5	948.8	934.6	933.2
50°	898.2	895.4	898.2	885.2	883.8
52.5°	849.9	844.8	845.3	832.3	832.1
55°	776.0	766.2	766.0	754.5	754.5
57.5°	697.8	684.9	686.1	676.3	674.8
60°	643.8	629.8	630.9	622.2	620.8
62.5°	590.9	574.6	578.0	568.2	567.9
65°	503.0	491.7	492.9	488.6	488.6
67.5°	418.5	408.1	415.6	412.1	411.9
70°	356.4	349.4	359.3	359.2	357.8
72.5°	298.9	298.6	311.0	311.0	311.8
75°	217.0	226.8	240.0	241.4	241.4
77.5°	144.9	162.3	176.8	177.3	177.0
80°	103.5	123.1	136.5	139.4	138.0
82.5°	70.1	90.9	102.0	104.9	103.5
85°	31.6	48.5	57.5	58.9	57.5
87.5°	9.2	19.3	23.0	22.9	20.7
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

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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)