

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: P563007

Luminaire Tested: **SQ4-PC3-125U-050D-940-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563007
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-6
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

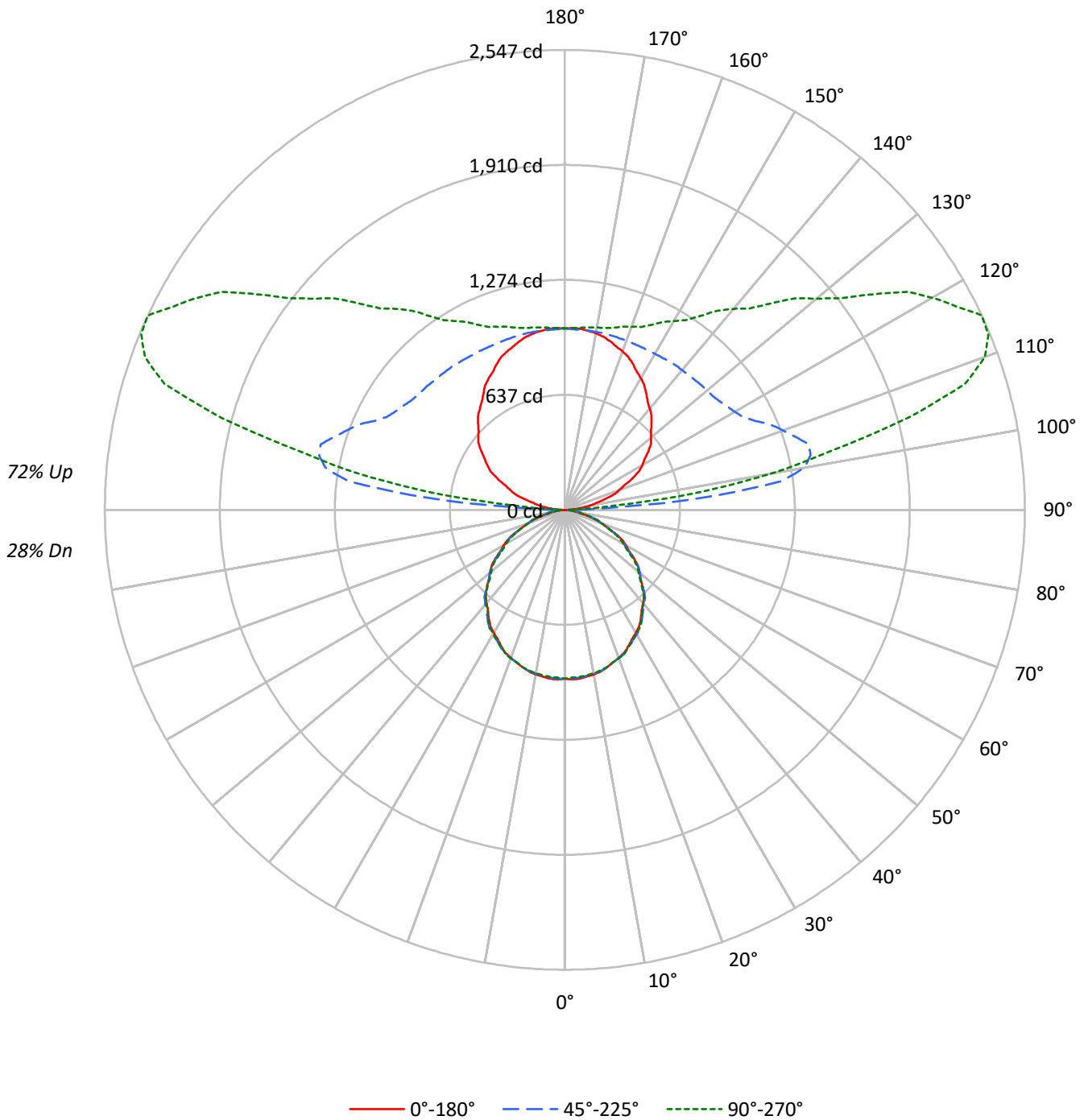
Lumens per Lamp: N/A
Luminaire Lumens: 9037.0 lumens
Efficiency: N/A
Efficacy: 121.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 74.2
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°	5795	5757	5736
10°	5780	5754	5737
15°	5750	5750	5744
20°	5712	5729	5729
25°	5658	5699	5682
30°	5590	5657	5633
35°	5506	5591	5552
40°	5415	5492	5436
45°	5317	5355	5271
50°	5178	5178	5095
55°	5013	4949	4874
60°	4772	4676	4601
65°	4410	4323	4285
70°	3861	3892	3877
75°	3106	3436	3458
80°	2207	2912	2943
85°	1341	2442	2442



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.5	1.0
10°-20°	253.9	2.8
20°-30°	384.6	4.3
30°-40°	461.0	5.1
40°-50°	470.1	5.2
50°-60°	410.4	4.5
60°-70°	293.8	3.3
70°-80°	151.3	1.7
80°-90°	40.6	0.4
90°-100°	469.8	5.2
100°-110°	1265.4	14.0
110°-120°	1328.0	14.7
120°-130°	1077.7	11.9
130°-140°	845.2	9.4
140°-150°	648.9	7.2
150°-160°	466.6	5.2
160°-170°	285.0	3.2
170°-180°	96.1	1.1
0°-30°	727.0	8.0
0°-40°	1188.1	13.1
0°-60°	2068.5	22.9
0°-90°	2554.3	28.3
90°-120°	3063.3	33.9
90°-150°	5635.0	62.4
90°-180°	6483.0	71.7
0°-180°	9037.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	935	935	935	935	935	
5°	938	929	932	930	929	89
15°	903	895	903	903	902	255
25°	834	828	840	837	837	384
35°	733	732	745	739	739	459
45°	611	610	616	608	606	470
55°	468	462	462	454	454	417
65°	303	296	297	294	294	300
75°	131	137	145	146	146	141
85°	19	29	35	36	35	26
90°	3	8	15	17	17	6
95°	72	256	770	394	272	75
105°	234	364	1400	2094	1965	246
115°	413	506	1165	2252	2547	407
125°	564	648	1046	1769	2081	504
135°	679	758	1017	1427	1616	524
145°	786	847	1004	1220	1310	493
155°	892	924	995	1094	1130	410
165°	967	978	999	1039	1044	273
175°	1006	1004	1000	1014	1012	96
180°	1004	1004	1004	1004	1004	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	935.0	935.0	935.0	935.0	935.0
2.5°	940.6	932.5	935.0	932.9	929.5
5°	938.5	929.2	932.4	929.8	929.0
7.5°	931.7	922.4	926.7	925.0	924.1
10°	925.5	916.2	921.2	919.4	918.6
12.5°	917.2	908.6	914.3	912.5	912.4
15°	903.0	895.4	903.0	903.0	902.1
17.5°	885.2	878.2	886.4	886.9	886.4
20°	872.7	865.1	875.3	874.5	875.3
22.5°	857.5	851.2	862.1	859.9	860.8
25°	833.7	827.8	839.8	837.2	837.2
27.5°	805.7	801.5	814.5	811.8	811.8
30°	787.0	782.8	796.5	793.1	793.1
32.5°	766.2	763.3	776.4	772.3	772.3
35°	733.3	731.6	744.6	739.4	739.4
37.5°	699.4	697.9	709.6	703.3	701.3
40°	674.4	673.6	684.0	677.0	677.0
42.5°	649.5	648.7	657.6	649.3	649.3
45°	611.2	609.5	615.6	607.7	606.0
47.5°	569.5	567.8	571.6	563.1	562.2
50°	541.1	539.4	541.1	533.3	532.5
52.5°	512.0	509.0	509.2	501.5	501.3
55°	467.5	461.6	461.5	454.5	454.5
57.5°	420.4	412.6	413.3	407.4	406.6
60°	387.9	379.4	380.1	374.9	374.0
62.5°	356.0	346.2	348.2	342.3	342.2
65°	303.0	296.2	297.0	294.4	294.4
67.5°	252.1	245.8	250.4	248.3	248.1
70°	214.7	210.5	216.4	216.4	215.6
72.5°	180.1	179.9	187.4	187.4	187.9
75°	130.7	136.7	144.6	145.5	145.5
77.5°	87.3	97.8	106.5	106.8	106.7
80°	62.3	74.2	82.2	84.0	83.1
82.5°	42.2	54.8	61.5	63.2	62.3
85°	19.0	29.2	34.6	35.5	34.6
87.5°	6.1	13.1	16.9	17.1	15.8
90°	2.6	7.6	15.4	16.6	16.6
92.5°	31.2	110.3	218.0	104.9	72.9
95°	71.6	255.5	770.1	393.8	272.5
97.5°	114.4	292.5	1207.9	1009.1	760.9
100°	147.1	307.2	1347.0	1409.4	1169.2
102.5°	178.8	327.9	1393.1	1709.2	1512.1
105°	234.1	364.2	1399.5	2093.7	1964.9
107.5°	286.3	402.4	1339.9	2291.4	2324.6
110°	321.1	431.2	1285.6	2352.7	2474.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	357.9	460.0	1233.4	2339.1	2538.5
115°	413.2	505.8	1165.4	2251.8	2547.0
117.5°	463.6	550.4	1112.7	2112.3	2441.0
120°	496.3	580.2	1086.1	2012.2	2350.0
122.5°	525.0	607.8	1066.6	1909.9	2246.6
125°	564.1	648.0	1046.4	1768.6	2081.3
127.5°	601.8	684.3	1033.6	1644.0	1923.2
130°	624.3	706.8	1028.5	1572.6	1817.8
132.5°	646.8	728.3	1023.4	1509.8	1734.9
135°	679.3	758.1	1017.0	1426.8	1615.7
137.5°	710.2	785.8	1013.7	1356.5	1511.6
140°	731.7	804.3	1010.6	1313.1	1453.2
142.5°	754.2	821.8	1008.6	1272.7	1390.8
145°	785.5	846.7	1004.2	1219.9	1309.9
147.5°	819.2	872.5	999.9	1175.4	1246.2
150°	841.7	888.0	997.8	1147.5	1206.3
152.5°	862.2	902.5	996.8	1124.8	1172.6
155°	891.6	924.2	995.2	1094.5	1129.6
157.5°	917.5	942.7	995.5	1073.3	1096.8
160°	933.8	955.1	996.5	1060.9	1078.4
162.5°	948.2	965.4	997.6	1050.5	1063.0
165°	967.1	978.4	999.1	1038.9	1043.9
167.5°	982.5	989.0	1000.4	1029.8	1031.8
170°	992.7	995.2	1000.4	1024.7	1024.7
172.5°	998.8	999.3	1001.4	1019.6	1019.6
175°	1005.5	1004.2	1000.4	1014.4	1011.9
177.5°	1008.3	1006.3	1001.1	1009.3	1007.3
180°	1004.2	1004.2	1004.2	1004.2	1004.2

(END OF REPORT)