

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: P563003

Luminaire Tested: **SQ4-PC3-125U-050D-935-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563003
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-935-1D-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: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

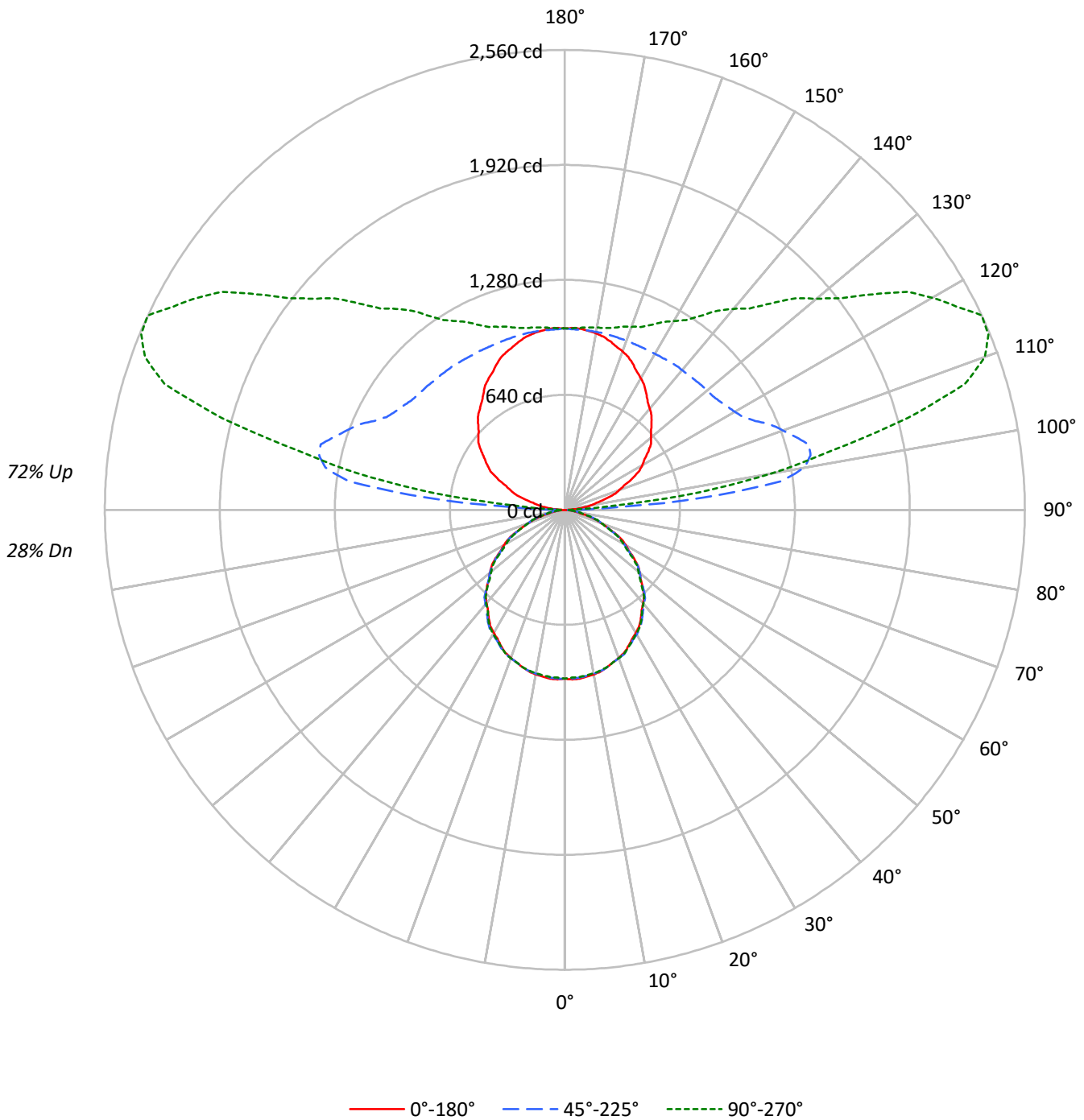
Lumens per Lamp: N/A
Luminaire Lumens: 9083.1 lumens
Efficiency: N/A
Efficacy: 122.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

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°	5781	5781	5781
5°	5824	5787	5765
10°	5810	5783	5767
15°	5779	5779	5774
20°	5742	5759	5759
25°	5687	5729	5711
30°	5618	5686	5661
35°	5535	5620	5580
40°	5443	5520	5464
45°	5344	5382	5298
50°	5205	5205	5121
55°	5039	4974	4900
60°	4795	4699	4624
65°	4433	4344	4307
70°	3881	3911	3897
75°	3123	3453	3474
80°	2221	2929	2958
85°	1348	2456	2456



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.9	1.0
10°-20°	255.2	2.8
20°-30°	386.5	4.3
30°-40°	463.4	5.1
40°-50°	472.5	5.2
50°-60°	412.5	4.5
60°-70°	295.3	3.3
70°-80°	152.1	1.7
80°-90°	40.8	0.4
90°-100°	472.2	5.2
100°-110°	1271.9	14.0
110°-120°	1334.8	14.7
120°-130°	1083.2	11.9
130°-140°	849.5	9.4
140°-150°	652.2	7.2
150°-160°	468.9	5.2
160°-170°	286.5	3.2
170°-180°	96.6	1.1
0°-30°	730.7	8.0
0°-40°	1194.1	13.1
0°-60°	2079.1	22.9
0°-90°	2567.3	28.3
90°-120°	3078.9	33.9
90°-150°	5663.8	62.4
90°-180°	6516.0	71.7
0°-180°	9083.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	940	940	940	940	940	
5°	943	934	937	935	934	90
15°	908	900	908	908	907	256
25°	838	832	844	842	842	386
35°	737	735	748	743	743	461
45°	614	613	619	611	609	473
55°	470	464	464	457	457	419
65°	305	298	298	296	296	301
75°	131	137	145	146	146	142
85°	19	29	35	36	35	26
90°	3	8	15	17	17	6
95°	72	257	774	396	274	75
105°	235	366	1407	2104	1975	247
115°	415	508	1171	2263	2560	409
125°	567	651	1052	1778	2092	506
135°	683	762	1022	1434	1624	527
145°	790	851	1009	1226	1317	495
155°	896	929	1000	1100	1135	413
165°	972	983	1004	1044	1049	274
175°	1011	1009	1006	1020	1017	96
180°	1009	1009	1009	1009	1009	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	939.8	939.8	939.8	939.8	939.8
2.5°	945.4	937.2	939.8	937.6	934.2
5°	943.3	933.9	937.2	934.6	933.7
7.5°	936.5	927.1	931.5	929.7	928.8
10°	930.2	920.9	925.9	924.1	923.3
12.5°	921.9	913.2	918.9	917.2	917.0
15°	907.6	900.0	907.6	907.6	906.7
17.5°	889.7	882.7	890.9	891.4	890.9
20°	877.2	869.5	879.8	878.9	879.8
22.5°	861.8	855.5	866.5	864.3	865.1
25°	838.0	832.0	844.1	841.5	841.5
27.5°	809.8	805.5	818.7	815.9	815.9
30°	791.0	786.8	800.6	797.1	797.1
32.5°	770.1	767.2	780.4	776.2	776.2
35°	737.1	735.4	748.4	743.1	743.1
37.5°	702.9	701.4	713.2	706.9	704.9
40°	677.9	677.0	687.5	680.5	680.5
42.5°	652.8	652.0	661.0	652.6	652.6
45°	614.4	612.7	618.7	610.8	609.1
47.5°	572.4	570.7	574.5	566.0	565.1
50°	543.9	542.2	543.9	536.0	535.2
52.5°	514.6	511.6	511.8	504.0	503.8
55°	469.9	463.9	463.8	456.9	456.9
57.5°	422.6	414.7	415.4	409.5	408.6
60°	389.8	381.3	382.0	376.8	375.9
62.5°	357.8	348.0	350.0	344.1	343.9
65°	304.6	297.8	298.5	295.9	295.9
67.5°	253.4	247.1	251.7	249.6	249.4
70°	215.8	211.6	217.5	217.5	216.7
72.5°	181.0	180.8	188.3	188.3	188.8
75°	131.4	137.4	145.3	146.2	146.2
77.5°	87.7	98.3	107.0	107.4	107.2
80°	62.7	74.6	82.7	84.4	83.5
82.5°	42.5	55.1	61.8	63.5	62.7
85°	19.1	29.4	34.8	35.7	34.8
87.5°	6.1	13.2	17.0	17.2	15.9
90°	2.6	7.6	15.4	16.7	16.7
92.5°	31.4	110.8	219.1	105.5	73.3
95°	72.0	256.8	774.0	395.8	273.9
97.5°	114.9	294.0	1214.0	1014.2	764.8
100°	147.9	308.8	1353.9	1416.6	1175.2
102.5°	179.8	329.6	1400.2	1717.9	1519.8
105°	235.3	366.0	1406.6	2104.4	1974.9
107.5°	287.8	404.4	1346.7	2303.1	2336.5
110°	322.7	433.4	1292.2	2364.7	2486.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	359.8	462.3	1239.7	2351.1	2551.5
115°	415.3	508.3	1171.3	2263.3	2560.0
117.5°	466.0	553.2	1118.4	2123.1	2453.5
120°	498.9	583.1	1091.6	2022.5	2362.0
122.5°	527.7	610.9	1072.1	1919.6	2258.1
125°	567.0	651.3	1051.8	1777.6	2091.9
127.5°	604.8	687.8	1038.9	1652.4	1933.0
130°	627.5	710.4	1033.8	1580.7	1827.1
132.5°	650.1	732.1	1028.6	1517.5	1743.8
135°	682.7	761.9	1022.2	1434.1	1623.9
137.5°	713.9	789.8	1018.8	1363.4	1519.3
140°	735.5	808.4	1015.8	1319.8	1460.6
142.5°	758.1	826.0	1013.7	1279.2	1397.9
145°	789.5	851.1	1009.3	1226.1	1316.6
147.5°	823.4	877.0	1005.0	1181.4	1252.6
150°	846.0	892.6	1002.9	1153.4	1212.5
152.5°	866.6	907.1	1001.9	1130.5	1178.5
155°	896.2	928.9	1000.3	1100.1	1135.3
157.5°	922.2	947.5	1000.6	1078.8	1102.4
160°	938.6	960.0	1001.6	1066.3	1083.9
162.5°	953.0	970.4	1002.6	1055.9	1068.5
165°	972.0	983.4	1004.2	1044.2	1049.2
167.5°	987.5	994.0	1005.5	1035.1	1037.1
170°	997.8	1000.3	1005.5	1029.9	1029.9
172.5°	1003.9	1004.4	1006.5	1024.8	1024.8
175°	1010.6	1009.4	1005.5	1019.6	1017.0
177.5°	1013.4	1011.4	1006.2	1014.4	1012.4
180°	1009.3	1009.3	1009.3	1009.3	1009.3

(END OF REPORT)