

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: P563337

Luminaire Tested: **SQ4-PP3-050U-100D-935-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563337
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-050U-100D-935-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

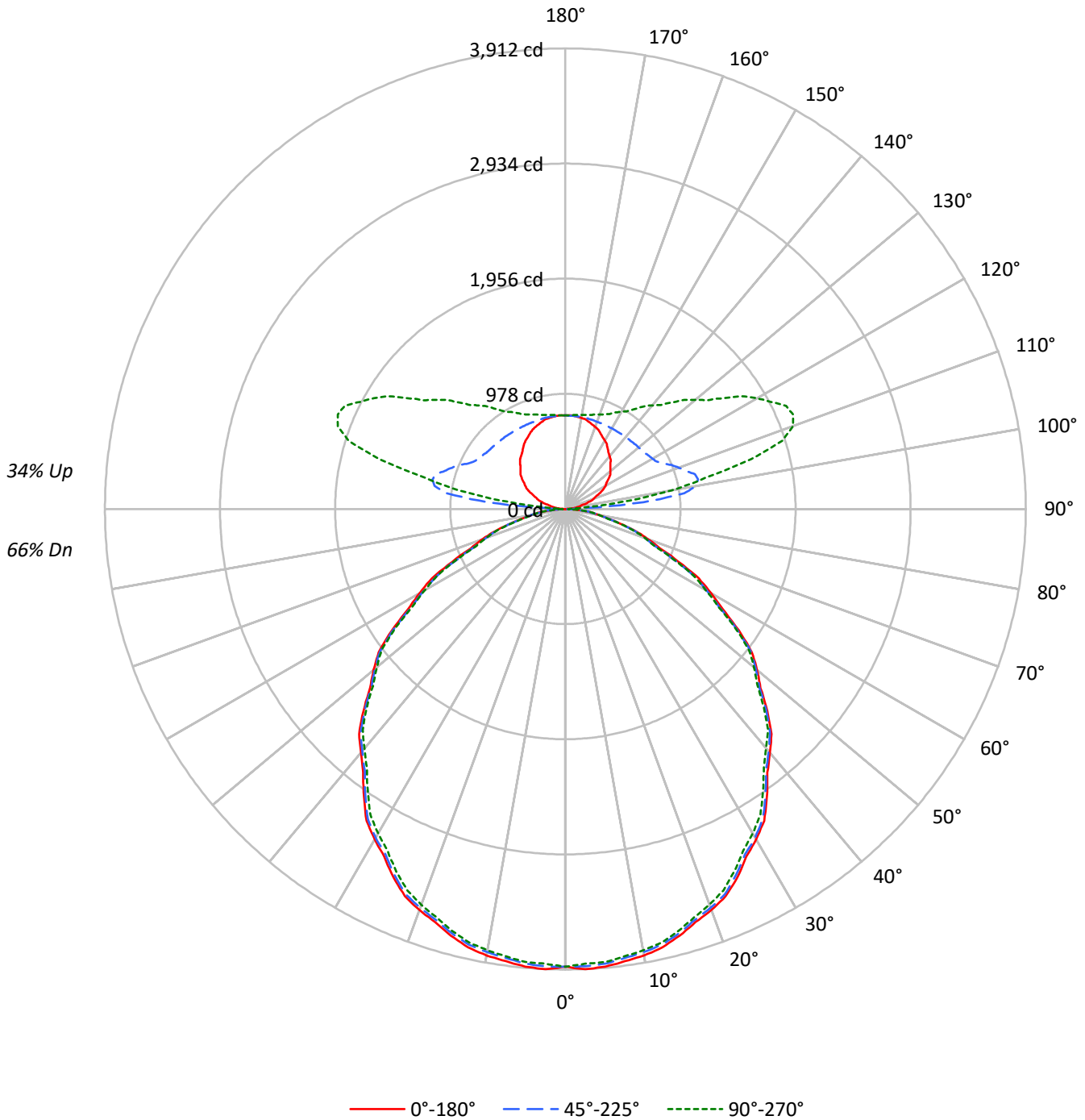
Lumens per Lamp: N/A
Luminaire Lumens: 15146.3 lumens
Efficiency: N/A
Efficacy: 112.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 134.4
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	111	111	111	111	104	104	104	104	92	92	92	81	81	81	71	71	71	66
1	102	97	93	90	95	92	88	85	81	79	76	72	70	68	63	61	60	56
2	93	85	79	74	87	80	75	70	72	67	64	63	60	57	56	53	51	47
3	85	75	68	62	79	71	64	59	63	58	54	56	52	49	49	46	44	40
4	78	67	59	52	73	63	56	50	56	51	46	50	46	42	44	41	38	35
5	71	60	51	45	67	56	49	43	51	44	40	45	40	36	40	36	33	30
6	66	54	45	39	62	51	43	38	46	39	35	41	36	32	36	32	29	26
7	61	48	40	35	57	46	39	33	41	35	31	37	32	28	33	29	26	23
8	57	44	36	31	53	42	35	30	38	32	27	34	29	25	30	26	23	21
9	53	40	33	27	50	38	31	27	35	29	25	31	26	23	28	24	21	19
10	49	37	30	25	47	35	29	24	32	26	22	29	24	21	26	22	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11957	11957	11957
5°	12045	11971	11929
10°	12025	11939	11886
15°	11945	11880	11815
20°	11866	11799	11710
25°	11725	11644	11528
30°	11508	11447	11302
35°	11207	11130	10989
40°	10848	10780	10656
45°	10552	10478	10374
50°	10173	10108	10010
55°	9647	9519	9446
60°	8781	8530	8488
65°	7736	7414	7389
70°	6679	6404	6404
75°	5750	5668	5587
80°	5069	5129	5009
85°	3966	4330	4330



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	367.6	2.4
10°-20°	1049.7	6.9
20°-30°	1572.4	10.4
30°-40°	1844.3	12.2
40°-50°	1850.1	12.2
50°-60°	1578.3	10.4
60°-70°	1029.3	6.8
70°-80°	516.4	3.4
80°-90°	146.0	1.0
90°-100°	381.7	2.5
100°-110°	1037.0	6.8
110°-120°	1066.3	7.0
120°-130°	852.5	5.6
130°-140°	669.8	4.4
140°-150°	513.6	3.4
150°-160°	369.4	2.4
160°-170°	225.9	1.5
170°-180°	76.1	0.5
0°-30°	2989.8	19.7
0°-40°	4834.1	31.9
0°-60°	8262.4	54.6
0°-90°	9954.0	65.7
90°-120°	2485.0	16.4
90°-150°	4521.0	29.8
90°-180°	5192.0	34.3
0°-180°	15146.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3888	3888	3888	3888	3888	
5°	3902	3865	3878	3864	3864	371
15°	3752	3715	3731	3717	3711	1058
25°	3455	3415	3431	3401	3397	1589
35°	2985	2955	2964	2930	2927	1865
45°	2426	2410	2409	2385	2385	1868
55°	1799	1792	1775	1765	1762	1599
65°	1063	1043	1019	1012	1015	1061
75°	484	484	477	474	470	525
85°	112	122	123	123	123	132
90°	3	10	18	23	23	8
95°	56	209	665	289	194	60
105°	184	287	1140	1736	1634	196
115°	327	397	913	1816	2069	323
125°	450	512	826	1392	1642	401
135°	542	602	803	1134	1278	419
145°	626	672	793	963	1036	393
155°	708	733	788	865	890	327
165°	767	777	790	823	826	217
175°	795	798	793	803	800	76
180°	795	795	795	795	795	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3887.9	3887.9	3887.9	3887.9	3887.9
2.5°	3912.5	3880.5	3887.9	3882.1	3866.1
5°	3901.6	3864.9	3877.7	3864.1	3864.1
7.5°	3875.0	3835.0	3847.7	3834.1	3833.4
10°	3850.5	3810.5	3823.2	3809.5	3806.2
12.5°	3815.0	3775.0	3790.5	3774.1	3773.5
15°	3751.6	3715.0	3731.2	3717.4	3710.8
17.5°	3680.1	3640.1	3659.6	3640.5	3637.8
20°	3625.6	3585.6	3605.1	3577.9	3577.9
22.5°	3560.1	3520.2	3542.4	3507.0	3507.0
25°	3455.2	3415.2	3431.3	3400.6	3397.3
27.5°	3330.5	3291.2	3308.0	3273.2	3272.6
30°	3240.5	3203.9	3223.5	3185.9	3182.6
32.5°	3142.4	3108.4	3122.6	3085.1	3081.7
35°	2985.0	2955.0	2964.5	2930.4	2927.0
37.5°	2819.4	2788.7	2799.6	2770.3	2768.9
40°	2702.1	2682.2	2685.1	2661.1	2654.4
42.5°	2593.1	2570.4	2573.3	2549.5	2548.1
45°	2426.1	2409.5	2409.1	2385.2	2385.2
47.5°	2248.9	2236.3	2232.6	2212.8	2212.1
50°	2126.3	2116.3	2112.6	2095.5	2092.2
52.5°	1998.2	1993.5	1981.8	1967.5	1966.8
55°	1799.2	1792.5	1775.3	1765.0	1761.7
57.5°	1583.1	1569.8	1550.4	1535.5	1538.1
60°	1427.7	1414.4	1386.8	1380.0	1380.0
62.5°	1277.8	1261.8	1234.2	1224.8	1230.1
65°	1063.1	1043.1	1018.8	1012.1	1015.4
67.5°	868.2	850.2	823.9	823.9	821.2
70°	742.8	732.8	712.2	712.2	712.2
72.5°	631.1	626.4	611.3	611.2	608.6
75°	483.9	483.9	477.0	473.6	470.2
77.5°	362.6	363.9	360.5	357.0	351.0
80°	286.2	292.9	289.6	286.2	282.8
82.5°	215.4	222.0	221.5	215.3	214.7
85°	112.4	122.4	122.7	122.7	122.7
87.5°	30.5	42.7	47.2	48.3	50.9
90°	2.6	10.1	17.9	23.0	23.0
92.5°	23.0	104.5	181.5	78.0	66.0
95°	56.3	208.8	664.8	289.3	194.3
97.5°	93.1	230.6	1019.2	792.9	556.9
100°	117.6	245.1	1127.6	1143.1	923.1
102.5°	142.2	259.7	1156.3	1413.7	1219.7
105°	184.1	286.6	1140.4	1736.4	1633.9
107.5°	227.6	318.1	1074.5	1903.1	1931.6
110°	258.3	340.8	1025.4	1935.9	2058.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	284.9	363.4	976.3	1908.7	2093.2
115°	327.3	397.3	912.9	1816.1	2068.6
117.5°	367.2	434.2	872.5	1684.9	1969.4
120°	393.8	458.8	854.0	1596.9	1879.4
122.5°	416.3	481.3	841.8	1508.7	1781.2
125°	450.0	512.5	825.9	1391.6	1641.6
127.5°	480.2	542.2	817.2	1302.8	1517.3
130°	498.6	558.6	813.1	1247.1	1439.6
132.5°	517.0	577.0	809.0	1199.5	1370.0
135°	542.1	602.1	802.9	1133.5	1278.5
137.5°	569.2	623.7	799.8	1075.2	1197.2
140°	585.6	638.1	797.8	1038.1	1148.1
142.5°	601.9	650.4	795.7	1009.0	1101.0
145°	626.5	671.5	792.7	963.1	1035.6
147.5°	654.1	692.6	790.1	926.9	983.9
150°	672.5	705.0	790.1	906.2	951.2
152.5°	686.8	715.3	788.1	887.6	924.6
155°	708.3	733.3	787.6	864.8	889.8
157.5°	729.3	748.8	787.6	849.4	868.4
160°	741.5	759.0	787.6	839.0	854.0
162.5°	753.8	767.3	789.6	830.8	841.8
165°	767.1	777.1	790.1	823.4	825.9
167.5°	780.9	785.9	792.7	814.7	816.7
170°	785.0	790.0	792.7	810.6	810.6
172.5°	789.1	792.1	792.7	806.5	806.5
175°	795.2	797.7	792.7	802.8	800.3
177.5°	797.3	797.3	791.1	799.2	795.2
180°	795.2	795.2	795.2	795.2	795.2

(END OF REPORT)