

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: P563339

Luminaire Tested: **SQ4-PP3-050U-100D-935-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563339
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-6
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

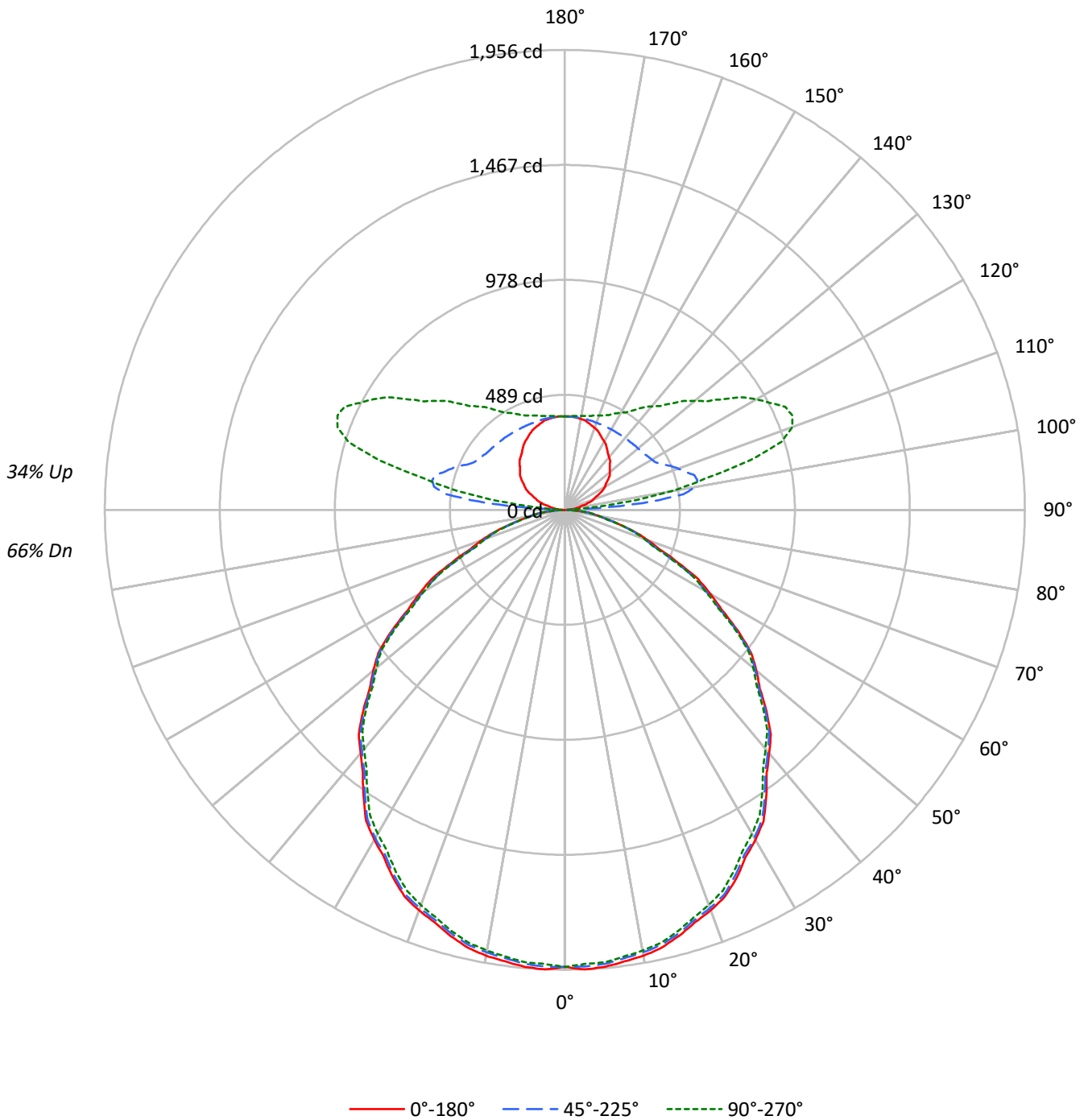
Lumens per Lamp: N/A
Luminaire Lumens: 7573.1 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 73.4
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°	12024	11939	11886
15°	11945	11880	11815
20°	11866	11799	11709
25°	11725	11644	11528
30°	11508	11447	11302
35°	11207	11130	10989
40°	10848	10780	10656
45°	10552	10477	10374
50°	10173	10108	10010
55°	9647	9519	9445
60°	8782	8530	8488
65°	7737	7414	7389
70°	6679	6404	6404
75°	5749	5668	5587
80°	5069	5129	5009
85°	3966	4326	4326



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.8	2.4
10°-20°	524.9	6.9
20°-30°	786.2	10.4
30°-40°	922.2	12.2
40°-50°	925.0	12.2
50°-60°	789.1	10.4
60°-70°	514.7	6.8
70°-80°	258.2	3.4
80°-90°	73.0	1.0
90°-100°	190.9	2.5
100°-110°	518.5	6.8
110°-120°	533.1	7.0
120°-130°	426.2	5.6
130°-140°	334.9	4.4
140°-150°	256.8	3.4
150°-160°	184.7	2.4
160°-170°	112.9	1.5
170°-180°	38.1	0.5
0°-30°	1494.9	19.7
0°-40°	2417.0	31.9
0°-60°	4131.2	54.6
0°-90°	4977.0	65.7
90°-120°	1242.5	16.4
90°-150°	2260.4	29.8
90°-180°	2596.0	34.3
0°-180°	7573.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1944	1944	1944	1944	1944	
5°	1951	1932	1939	1932	1932	185
15°	1876	1858	1866	1859	1855	529
25°	1728	1708	1716	1700	1699	794
35°	1492	1478	1482	1465	1464	932
45°	1213	1205	1204	1193	1193	934
55°	900	896	888	882	881	799
65°	532	522	509	506	508	531
75°	242	242	238	237	235	262
85°	56	61	61	61	61	66
90°	1	5	9	12	12	4
95°	28	104	332	145	97	30
105°	92	143	570	868	817	98
115°	164	199	456	908	1034	161
125°	225	256	413	696	821	201
135°	271	301	402	567	639	210
145°	313	336	396	482	518	197
155°	354	367	394	432	445	163
165°	384	389	395	412	413	108
175°	398	399	396	401	400	38
180°	398	398	398	398	398	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1944.0	1944.0	1944.0	1944.0	1944.0
2.5°	1956.2	1940.2	1944.0	1941.1	1933.1
5°	1950.8	1932.5	1938.9	1932.0	1932.0
7.5°	1937.5	1917.5	1923.9	1917.0	1916.7
10°	1925.2	1905.2	1911.6	1904.8	1903.1
12.5°	1907.5	1887.5	1895.2	1887.1	1886.7
15°	1875.8	1857.5	1865.6	1858.7	1855.4
17.5°	1840.0	1820.1	1829.8	1820.3	1818.9
20°	1812.8	1792.8	1802.6	1788.9	1788.9
22.5°	1780.1	1760.1	1771.2	1753.5	1753.5
25°	1727.6	1707.6	1715.7	1700.3	1698.6
27.5°	1665.2	1645.6	1654.0	1636.6	1636.3
30°	1620.3	1601.9	1611.7	1593.0	1591.3
32.5°	1571.2	1554.2	1561.3	1542.5	1540.9
35°	1492.5	1477.5	1482.3	1465.2	1463.5
37.5°	1409.7	1394.4	1399.8	1385.1	1384.5
40°	1351.1	1341.1	1342.6	1330.6	1327.2
42.5°	1296.6	1285.2	1286.7	1274.7	1274.1
45°	1213.1	1204.7	1204.5	1192.6	1192.6
47.5°	1124.5	1118.1	1116.3	1106.4	1106.1
50°	1063.1	1058.1	1056.3	1047.8	1046.1
52.5°	999.1	996.7	990.9	983.7	983.4
55°	899.6	896.2	887.7	882.5	880.8
57.5°	791.6	784.9	775.2	767.7	769.1
60°	713.9	707.2	693.4	690.0	690.0
62.5°	638.9	630.9	617.1	612.4	615.1
65°	531.6	521.6	509.4	506.1	507.7
67.5°	434.1	425.1	412.0	411.9	410.6
70°	371.4	366.4	356.1	356.1	356.1
72.5°	315.5	313.2	305.7	305.6	304.3
75°	241.9	241.9	238.5	236.8	235.1
77.5°	181.3	181.9	180.3	178.5	175.5
80°	143.1	146.4	144.8	143.1	141.4
82.5°	107.7	111.0	110.7	107.7	107.3
85°	56.2	61.2	61.3	61.3	61.3
87.5°	15.2	21.3	23.6	24.1	25.5
90°	1.3	5.0	8.9	11.5	11.5
92.5°	11.5	52.3	90.8	39.0	33.0
95°	28.1	104.4	332.4	144.7	97.2
97.5°	46.5	115.3	509.6	396.5	278.5
100°	58.8	122.6	563.8	571.5	461.5
102.5°	71.1	129.8	578.1	706.9	609.8
105°	92.1	143.3	570.2	868.2	817.0
107.5°	113.8	159.0	537.2	951.5	965.8
110°	129.1	170.4	512.7	967.9	1029.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	142.4	181.7	488.1	954.3	1046.6
115°	163.6	198.7	456.4	908.1	1034.3
117.5°	183.6	217.1	436.2	842.4	984.7
120°	196.9	229.4	427.0	798.4	939.7
122.5°	208.1	240.6	420.9	754.3	890.6
125°	225.0	256.3	413.0	695.8	820.8
127.5°	240.1	271.1	408.6	651.4	758.7
130°	249.3	279.3	406.6	623.5	719.8
132.5°	258.5	288.5	404.5	599.8	685.0
135°	271.0	301.0	401.5	566.7	639.3
137.5°	284.6	311.8	399.9	537.6	598.6
140°	292.8	319.0	398.9	519.0	574.0
142.5°	301.0	325.2	397.9	504.5	550.5
145°	313.2	335.7	396.3	481.5	517.8
147.5°	327.0	346.3	395.1	463.5	492.0
150°	336.2	352.5	395.1	453.1	475.6
152.5°	343.4	357.7	394.0	443.8	462.3
155°	354.1	366.6	393.8	432.4	444.9
157.5°	364.6	374.4	393.8	424.7	434.2
160°	370.8	379.5	393.8	419.5	427.0
162.5°	376.9	383.7	394.8	415.4	420.9
165°	383.6	388.6	395.1	411.7	413.0
167.5°	390.5	393.0	396.3	407.4	408.4
170°	392.5	395.0	396.3	405.3	405.3
172.5°	394.5	396.0	396.3	403.2	403.2
175°	397.6	398.9	396.3	401.4	400.2
177.5°	398.6	398.6	395.6	399.6	397.6
180°	397.6	397.6	397.6	397.6	397.6

(END OF REPORT)