

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: P564011

Luminaire Tested: **SQ4-PR1-050U-100D-935-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564011
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-050U-100D-935-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

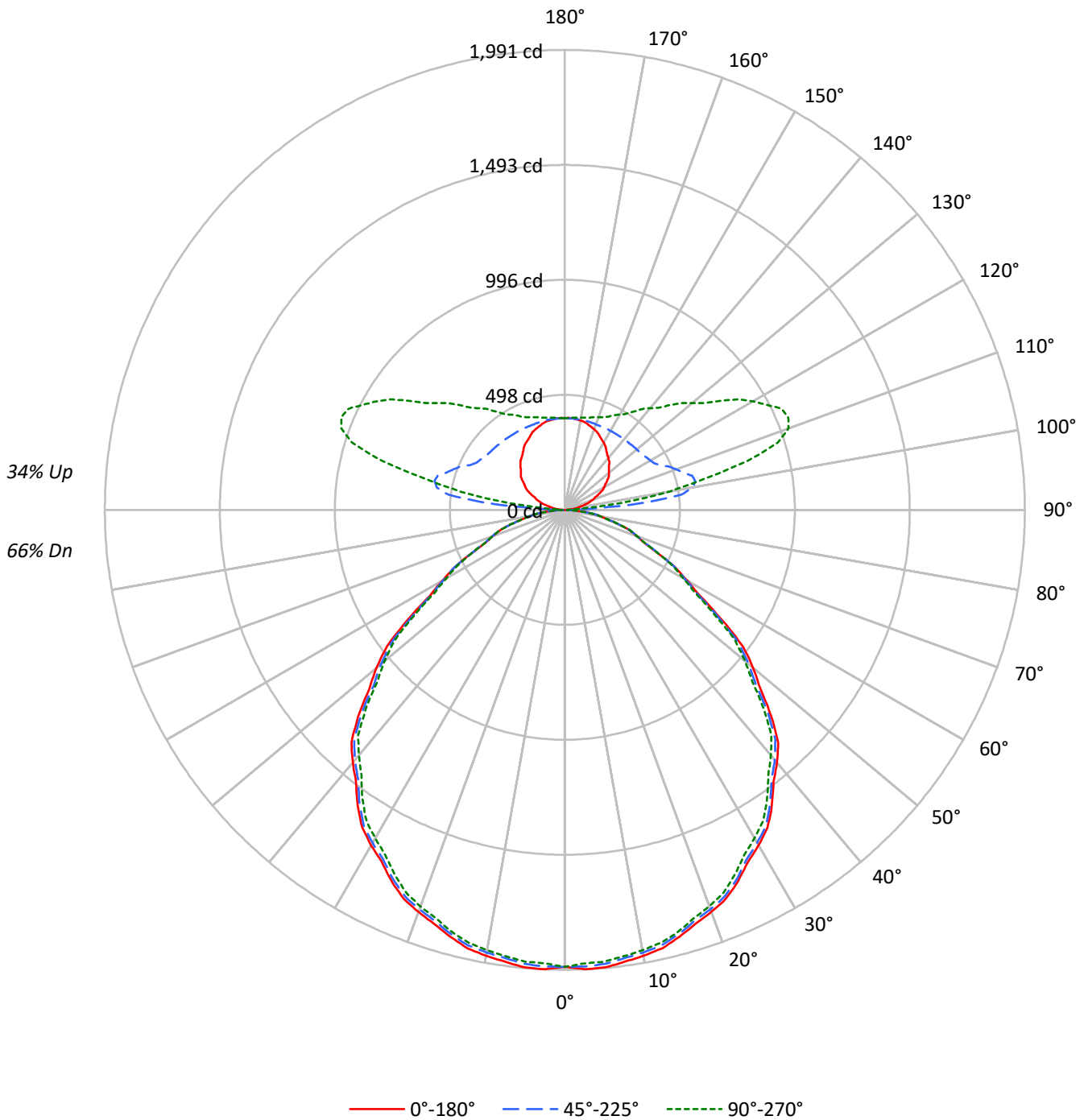
Lumens per Lamp: N/A
Luminaire Lumens: 7543.7 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

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	50	30	10	0	
RCR																						
0	111	111	111	111	104	104	104	104	92	92	92	81	81	81	70	70	70	66				
1	102	97	94	90	95	92	88	85	81	79	76	72	70	68	63	62	60	56				
2	93	85	79	74	87	81	75	71	72	68	64	63	60	57	56	53	51	48				
3	85	76	68	62	80	71	65	60	64	58	54	56	52	49	50	47	44	41				
4	78	67	59	53	73	64	56	51	57	51	47	51	46	42	45	41	38	35				
5	72	60	52	46	67	57	50	44	51	45	40	46	41	37	40	37	34	31				
6	66	54	46	40	62	51	44	38	46	40	35	41	36	33	37	33	30	27				
7	61	49	41	35	58	47	39	34	42	36	31	38	33	29	34	30	26	24				
8	57	45	37	31	54	42	35	30	38	32	28	34	30	26	31	27	24	22				
9	53	41	33	28	50	39	32	27	35	29	25	32	27	23	29	24	21	19				
10	50	37	30	25	47	36	29	24	33	27	23	29	25	21	26	22	20	18				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12169	12169	12169
5°	12279	12184	12121
10°	12240	12155	12091
15°	12187	12110	12045
20°	12125	12047	11957
25°	12040	11959	11820
30°	11910	11825	11656
35°	11734	11632	11465
40°	11467	11343	11138
45°	10999	10806	10584
50°	10176	9931	9735
55°	8881	8681	8497
60°	7484	7422	7274
65°	6474	6498	6449
70°	5945	5976	5976
75°	5711	5711	5751
80°	5373	5434	5373
85°	4326	4813	4813



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.1	2.5
10°-20°	535.3	7.1
20°-30°	807.4	10.7
30°-40°	962.0	12.8
40°-50°	948.5	12.6
50°-60°	724.9	9.6
60°-70°	448.6	5.9
70°-80°	254.8	3.4
80°-90°	79.0	1.0
90°-100°	190.9	2.5
100°-110°	518.5	6.9
110°-120°	533.1	7.1
120°-130°	426.2	5.7
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°	1529.8	20.3
0°-40°	2491.9	33.0
0°-60°	4165.2	55.2
0°-90°	4947.6	65.6
90°-120°	1242.5	16.5
90°-150°	2260.4	30.0
90°-180°	2596.0	34.4
0°-180°	7543.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1978	1978	1978	1978	1978	
5°	1989	1967	1973	1966	1963	189
15°	1914	1894	1902	1895	1892	540
25°	1774	1752	1762	1743	1742	816
35°	1563	1544	1549	1529	1527	975
45°	1264	1248	1242	1220	1217	969
55°	828	815	810	796	792	742
65°	445	441	446	443	443	451
75°	240	240	240	242	242	254
85°	61	65	68	68	68	71
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°	1978.5	1978.5	1978.5	1978.5	1978.5
2.5°	1990.8	1973.5	1978.5	1974.2	1964.9
5°	1988.7	1967.1	1973.4	1966.5	1963.2
7.5°	1973.4	1952.1	1958.4	1951.5	1949.5
10°	1959.8	1939.8	1946.1	1939.2	1935.9
12.5°	1944.8	1923.4	1931.1	1922.9	1919.6
15°	1913.8	1893.8	1901.8	1894.9	1891.6
17.5°	1879.7	1858.3	1866.4	1858.4	1854.1
20°	1852.4	1832.4	1840.5	1828.5	1826.8
22.5°	1822.4	1802.4	1810.5	1794.5	1794.1
25°	1774.0	1752.4	1762.1	1743.3	1741.6
27.5°	1716.4	1696.4	1704.5	1685.4	1683.4
30°	1676.9	1656.9	1665.0	1644.4	1641.1
32.5°	1631.9	1613.2	1620.0	1599.5	1597.5
35°	1562.7	1544.4	1549.1	1528.6	1526.9
37.5°	1484.0	1467.3	1470.0	1447.5	1445.8
40°	1428.1	1411.4	1412.7	1388.8	1387.2
42.5°	1366.7	1350.1	1348.7	1324.8	1323.1
45°	1264.5	1247.8	1242.3	1220.1	1216.8
47.5°	1147.9	1131.3	1121.0	1102.9	1100.5
50°	1063.4	1046.7	1037.8	1022.4	1017.4
52.5°	972.0	955.4	947.8	933.8	928.8
55°	828.2	814.9	809.5	795.8	792.4
57.5°	691.5	682.5	681.0	667.7	666.3
60°	608.4	603.4	603.3	591.3	591.3
62.5°	537.5	533.8	536.5	528.6	527.3
65°	444.8	441.4	446.5	443.1	443.1
67.5°	371.5	371.5	374.6	373.2	373.2
70°	330.6	330.6	332.3	332.3	332.3
72.5°	293.8	292.5	296.9	296.8	295.5
75°	240.3	240.3	240.3	242.0	242.0
77.5°	187.1	187.4	188.8	188.4	187.1
80°	151.7	153.3	153.4	151.7	151.7
82.5°	116.2	117.9	117.9	117.6	116.2
85°	61.3	64.7	68.2	68.2	68.2
87.5°	18.0	24.1	29.1	29.5	28.2
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)