

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: P564026

Luminaire Tested: **SQ4-PR1-050U-125D-840-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564026
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-125D-840-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

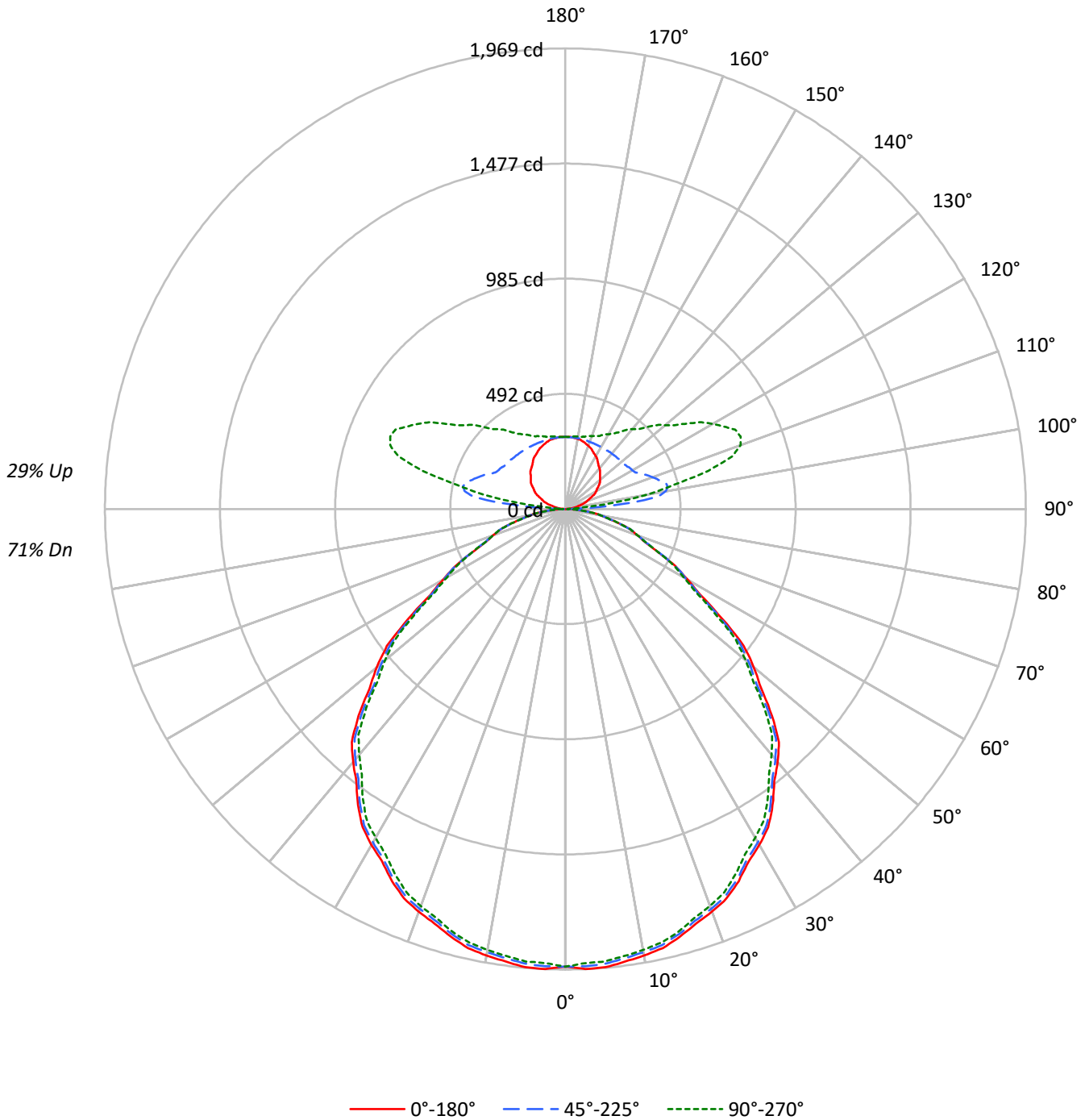
Lumens per Lamp: N/A
Luminaire Lumens: 6904.7 lumens
Efficiency: N/A
Efficacy: 123.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 55.9
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	112	112	112	112	106	106	106	106	95	95	95	85	85	85	75	75	75	75	75	75	71	
1	103	99	95	91	97	93	90	87	84	81	79	75	73	71	67	66	64	64	64	64	60	
2	94	87	80	75	89	82	77	72	74	70	66	67	63	60	60	57	55	55	55	55	51	
3	86	77	69	63	81	73	66	61	66	60	56	59	55	52	53	50	47	47	47	47	44	
4	79	68	60	54	75	65	58	52	59	53	48	53	48	45	48	44	41	41	41	41	38	
5	73	61	53	47	69	58	51	45	53	47	42	48	43	39	43	39	36	36	36	36	33	
6	67	55	47	41	63	52	45	39	48	41	37	43	38	34	39	35	32	32	32	32	29	
7	62	50	42	36	59	48	40	35	43	37	33	40	34	30	36	32	28	28	28	28	26	
8	58	45	37	32	55	43	36	31	40	34	29	36	31	27	33	29	25	25	25	25	23	
9	54	41	34	29	51	40	33	28	37	30	26	33	28	25	31	26	23	23	23	23	21	
10	51	38	31	26	48	37	30	25	34	28	24	31	26	22	28	24	21	21	21	21	19	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18053	18053	18053
5°	18215	18076	17981
10°	18158	18032	17937
15°	18078	17966	17869
20°	17987	17871	17739
25°	17861	17741	17534
30°	17668	17542	17291
35°	17407	17255	17008
40°	17010	16828	16523
45°	16316	16031	15702
50°	15095	14732	14442
55°	13176	12876	12606
60°	11103	11009	10791
65°	9603	9641	9566
70°	8821	8864	8864
75°	8470	8470	8530
80°	7970	8060	7970
85°	6426	7135	7135



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.0	2.7
10°-20°	529.4	7.7
20°-30°	798.5	11.6
30°-40°	951.4	13.8
40°-50°	938.0	13.6
50°-60°	716.9	10.4
60°-70°	443.6	6.4
70°-80°	252.0	3.6
80°-90°	77.8	1.1
90°-100°	147.9	2.1
100°-110°	401.8	5.8
110°-120°	413.2	6.0
120°-130°	330.3	4.8
130°-140°	259.5	3.8
140°-150°	199.0	2.9
150°-160°	143.1	2.1
160°-170°	87.5	1.3
170°-180°	29.5	0.4
0°-30°	1513.0	21.9
0°-40°	2464.4	35.7
0°-60°	4119.3	59.7
0°-90°	4892.7	70.9
90°-120°	962.9	13.9
90°-150°	1751.8	25.4
90°-180°	2012.0	29.1
0°-180°	6904.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1957	1957	1957	1957	1957	
5°	1967	1945	1952	1945	1942	187
15°	1893	1873	1881	1874	1871	534
25°	1754	1733	1743	1724	1722	807
35°	1546	1527	1532	1512	1510	965
45°	1250	1234	1229	1207	1203	958
55°	819	806	800	787	784	734
65°	440	437	442	438	438	446
75°	238	238	238	239	239	251
85°	61	64	67	67	67	71
90°	1	4	7	9	9	4
95°	22	81	258	112	75	23
105°	71	111	442	673	633	76
115°	127	154	354	704	802	125
125°	174	199	320	539	636	155
135°	210	233	311	439	495	162
145°	243	260	307	373	401	152
155°	274	284	305	335	345	127
165°	297	301	306	319	320	84
175°	308	309	307	311	310	29
180°	308	308	308	308	308	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1956.7	1956.7	1956.7	1956.7	1956.7
2.5°	1968.8	1951.7	1956.7	1952.5	1943.2
5°	1966.8	1945.4	1951.7	1944.8	1941.5
7.5°	1951.7	1930.6	1936.8	1930.0	1928.1
10°	1938.2	1918.4	1924.7	1917.9	1914.6
12.5°	1923.3	1902.2	1909.9	1901.7	1898.4
15°	1892.7	1872.9	1880.9	1874.1	1870.8
17.5°	1859.0	1837.9	1845.8	1838.0	1833.7
20°	1832.0	1812.2	1820.2	1808.4	1806.7
22.5°	1802.3	1782.6	1790.5	1774.7	1774.4
25°	1754.5	1733.0	1742.7	1724.1	1722.4
27.5°	1697.5	1677.7	1685.7	1666.8	1664.8
30°	1658.4	1638.6	1646.6	1626.3	1623.0
32.5°	1613.9	1595.4	1602.1	1581.8	1579.9
35°	1545.5	1527.4	1532.0	1511.7	1510.1
37.5°	1467.6	1451.1	1453.8	1431.5	1429.9
40°	1412.3	1395.9	1397.2	1373.5	1371.9
42.5°	1351.7	1335.2	1333.8	1310.2	1308.5
45°	1250.5	1234.1	1228.6	1206.6	1203.4
47.5°	1135.3	1118.8	1108.6	1090.7	1088.4
50°	1051.7	1035.2	1026.4	1011.1	1006.2
52.5°	961.3	944.9	937.4	923.5	918.5
55°	819.1	805.9	800.5	787.0	783.7
57.5°	683.9	675.0	673.5	660.3	659.0
60°	601.7	596.7	596.6	584.8	584.8
62.5°	531.6	527.9	530.6	522.8	521.5
65°	439.9	436.6	441.6	438.2	438.2
67.5°	367.4	367.4	370.4	369.1	369.1
70°	327.0	327.0	328.6	328.6	328.6
72.5°	290.6	289.2	293.6	293.6	292.2
75°	237.6	237.6	237.6	239.3	239.3
77.5°	185.1	185.4	186.7	186.4	185.1
80°	150.0	151.6	151.7	150.0	150.0
82.5°	114.9	116.6	116.6	116.3	114.9
85°	60.7	64.0	67.4	67.4	67.4
87.5°	17.7	23.6	28.4	28.7	27.4
90°	1.0	3.9	6.9	8.9	8.9
92.5°	8.9	40.5	70.3	30.2	25.6
95°	21.8	80.9	257.6	112.1	75.3
97.5°	36.1	89.3	394.9	307.3	215.8
100°	45.6	95.0	437.0	442.9	357.7
102.5°	55.1	100.6	448.0	547.8	472.6
105°	71.3	111.1	441.9	672.9	633.1
107.5°	88.2	123.3	416.3	737.4	748.5
110°	100.1	132.0	397.3	750.1	797.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	<i>110.4</i>	140.8	378.3	739.6	811.1
115°	<i>126.8</i>	154.0	353.7	703.7	801.6
117.5°	<i>142.3</i>	168.2	338.1	652.9	763.1
120°	<i>152.6</i>	177.8	330.9	618.8	728.3
122.5°	<i>161.3</i>	186.5	326.2	584.6	690.2
125°	<i>174.4</i>	198.6	320.0	539.2	636.1
127.5°	<i>186.1</i>	210.1	316.7	504.8	588.0
130°	<i>193.2</i>	216.5	315.1	483.2	557.8
132.5°	<i>200.3</i>	223.6	313.5	464.8	530.9
135°	<i>210.1</i>	233.3	311.1	439.2	495.4
137.5°	<i>220.6</i>	241.7	309.9	416.6	463.9
140°	<i>226.9</i>	247.2	309.1	402.2	444.9
142.5°	<i>233.2</i>	252.0	308.3	391.0	426.6
145°	<i>242.8</i>	260.2	307.2	373.2	401.3
147.5°	<i>253.5</i>	268.4	306.2	359.2	381.3
150°	<i>260.6</i>	273.2	306.2	351.1	368.6
152.5°	<i>266.1</i>	277.2	305.4	343.9	358.3
155°	<i>274.5</i>	284.1	305.2	335.1	344.8
157.5°	<i>282.6</i>	290.1	305.2	329.1	336.5
160°	<i>287.3</i>	294.1	305.2	325.1	330.9
162.5°	<i>292.1</i>	297.3	306.0	321.9	326.2
165°	<i>297.2</i>	301.1	306.2	319.1	320.0
167.5°	<i>302.6</i>	304.5	307.2	315.7	316.5
170°	<i>304.2</i>	306.1	307.2	314.1	314.1
172.5°	<i>305.8</i>	306.9	307.2	312.5	312.5
175°	<i>308.1</i>	309.1	307.2	311.1	310.1
177.5°	<i>308.9</i>	308.9	306.6	309.7	308.1
180°	<i>308.1</i>	308.1	308.1	308.1	308.1

(END OF REPORT)