

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: P564313

Luminaire Tested: **SQ4-PR1-100U-125D-840-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564313
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-PR1-100U-125D-840-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

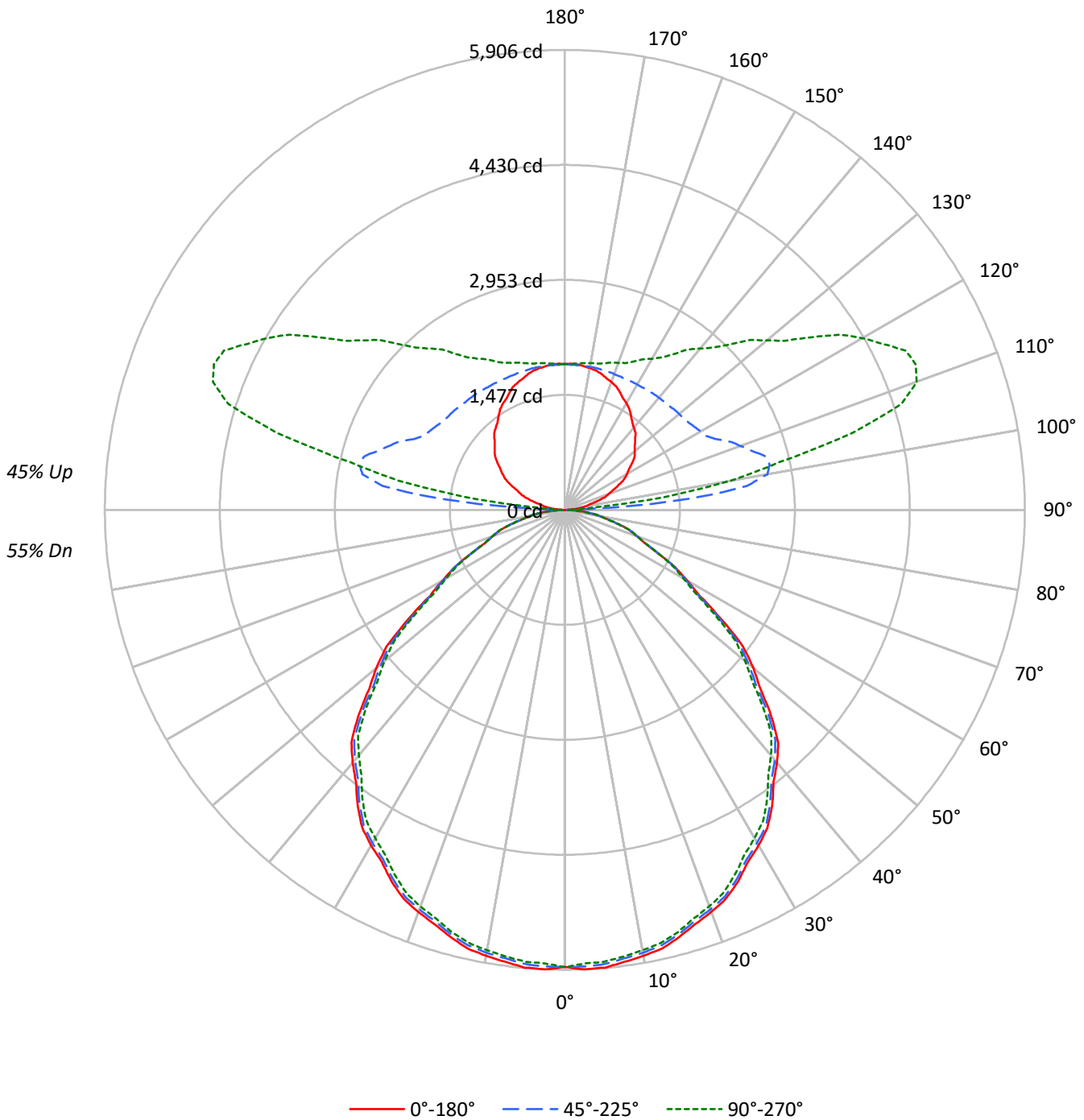
Lumens per Lamp: N/A
Luminaire Lumens: 26848.7 lumens
Efficiency: N/A
Efficacy: 125.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 214.8
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	108	108	108	108	100	100	100	100	86	86	86	73	73	73	60	60	60	55
1	99	95	91	88	92	88	85	82	76	73	71	64	63	61	54	53	52	47
2	91	83	77	72	84	78	72	68	67	63	60	57	54	52	48	46	44	40
3	83	73	66	60	77	69	62	57	59	54	50	51	47	44	43	40	38	34
4	76	65	57	51	70	61	54	49	53	47	43	45	41	38	38	35	33	29
5	70	58	50	44	65	54	47	42	47	42	37	41	36	33	35	31	29	26
6	64	52	44	38	60	49	42	37	43	37	33	37	32	29	31	28	25	23
7	60	47	39	34	55	44	37	32	39	33	29	34	29	26	29	25	23	20
8	55	43	35	30	51	40	33	29	35	30	26	31	26	23	26	23	20	18
9	51	39	32	27	48	37	30	26	33	27	23	28	24	21	24	21	18	16
10	48	36	29	24	45	34	27	23	30	25	21	26	22	19	23	19	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18053	18053	18053
5°	18216	18075	17981
10°	18158	18032	17937
15°	18078	17965	17869
20°	17987	17871	17739
25°	17860	17740	17534
30°	17668	17542	17291
35°	17407	17255	17008
40°	17010	16827	16523
45°	16317	16031	15701
50°	15095	14732	14442
55°	13176	12877	12606
60°	11102	11009	10792
65°	9603	9640	9566
70°	8820	8865	8865
75°	8471	8471	8532
80°	7970	8058	7970
85°	6422	7135	7135



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	555.1	2.1
10°-20°	1588.2	5.9
20°-30°	2395.5	8.9
30°-40°	2854.3	10.6
40°-50°	2814.1	10.5
50°-60°	2150.7	8.0
60°-70°	1330.9	5.0
70°-80°	755.9	2.8
80°-90°	233.8	0.9
90°-100°	877.2	3.3
100°-110°	2421.6	9.0
110°-120°	2497.4	9.3
120°-130°	2006.9	7.5
130°-140°	1577.2	5.9
140°-150°	1209.7	4.5
150°-160°	869.4	3.2
160°-170°	531.7	2.0
170°-180°	179.2	0.7
0°-30°	4538.9	16.9
0°-40°	7393.2	27.5
0°-60°	12357.9	46.0
0°-90°	14678.6	54.7
90°-120°	5796.2	21.6
90°-150°	10589.9	39.4
90°-180°	12170.0	45.3
0°-180°	26848.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5870	5870	5870	5870	5870	
5°	5900	5836	5855	5834	5825	560
15°	5678	5619	5643	5622	5612	1602
25°	5263	5199	5228	5172	5167	2422
35°	4636	4582	4596	4535	4530	2894
45°	3752	3702	3686	3620	3610	2874
55°	2457	2418	2402	2361	2351	2202
65°	1320	1310	1325	1315	1315	1337
75°	713	713	713	718	718	753
85°	182	192	202	202	202	212
90°	6	12	24	27	30	16
95°	129	475	1591	654	426	138
105°	432	666	2664	4067	3830	459
115°	773	934	2146	4248	4831	760
125°	1061	1207	1945	3292	3863	944
135°	1277	1414	1891	2666	3006	988
145°	1480	1583	1867	2270	2442	927
155°	1669	1725	1852	2036	2101	769
165°	1807	1831	1861	1933	1948	509
175°	1873	1876	1864	1891	1885	178
180°	1873	1873	1873	1873	1873	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5870.1	5870.1	5870.1	5870.1	5870.1
2.5°	5906.5	5855.1	5870.1	5857.4	5829.7
5°	5900.5	5836.2	5855.0	5834.5	5824.6
7.5°	5855.0	5791.7	5810.5	5790.1	5784.2
10°	5814.5	5755.2	5774.1	5753.6	5743.7
12.5°	5770.0	5706.7	5729.6	5705.1	5695.2
15°	5678.0	5618.7	5642.6	5622.2	5612.3
17.5°	5576.9	5513.6	5537.4	5513.9	5501.0
20°	5496.0	5436.6	5460.6	5425.1	5420.1
22.5°	5407.0	5347.7	5371.6	5324.0	5323.1
25°	5263.4	5199.1	5228.0	5172.3	5167.3
27.5°	5092.5	5033.2	5057.1	5000.3	4994.4
30°	4975.2	4915.9	4939.8	4878.9	4869.0
32.5°	4841.7	4786.3	4806.3	4745.5	4739.6
35°	4636.4	4582.1	4596.0	4535.2	4530.3
37.5°	4402.8	4353.4	4361.4	4294.5	4289.6
40°	4237.0	4187.6	4191.5	4120.6	4115.7
42.5°	4055.0	4005.6	4001.4	3930.5	3925.6
45°	3751.6	3702.2	3685.9	3619.9	3610.1
47.5°	3405.8	3356.3	3325.9	3272.1	3265.2
50°	3155.0	3105.6	3079.2	3033.3	3018.5
52.5°	2884.0	2834.6	2812.2	2770.4	2755.6
55°	2457.3	2417.7	2401.6	2361.0	2351.1
57.5°	2051.8	2025.1	2020.4	1980.9	1976.9
60°	1805.0	1790.2	1789.9	1754.5	1754.5
62.5°	1594.7	1583.8	1591.7	1568.3	1564.4
65°	1319.6	1309.8	1324.7	1314.6	1314.6
67.5°	1102.2	1102.2	1111.3	1107.3	1107.3
70°	980.9	980.9	985.9	985.9	985.9
72.5°	871.7	867.7	880.8	880.7	876.7
75°	712.9	712.9	712.9	718.0	718.0
77.5°	555.2	556.1	560.2	559.1	555.2
80°	450.0	454.9	455.0	450.0	450.0
82.5°	344.8	349.8	349.9	348.8	344.8
85°	182.0	191.9	202.2	202.2	202.2
87.5°	53.8	70.8	85.7	86.2	82.8
90°	6.0	11.9	24.0	27.0	30.0
92.5°	53.9	223.9	400.4	146.1	113.9
95°	128.9	474.6	1591.4	654.1	425.6
97.5°	213.4	531.6	2357.4	1814.9	1314.4
100°	275.7	565.8	2640.3	2658.9	2160.8
102.5°	335.7	604.7	2695.4	3285.3	2812.9
105°	431.6	666.0	2664.2	4067.4	3830.0
107.5°	533.4	742.1	2515.6	4444.6	4531.3
110°	605.4	792.9	2400.5	4525.7	4807.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	670.1	850.6	2292.6	4461.6	4876.6
115°	773.2	934.4	2145.8	4247.9	4831.0
117.5°	863.1	1023.7	2049.3	3947.0	4610.4
120°	923.0	1081.3	2010.9	3743.3	4411.4
122.5°	980.6	1131.8	1979.8	3553.1	4186.1
125°	1060.9	1207.4	1945.0	3291.6	3863.0
127.5°	1129.2	1275.7	1924.6	3070.4	3563.3
130°	1174.8	1321.3	1915.0	2935.2	3383.5
132.5°	1217.9	1357.4	1905.4	2821.5	3227.7
135°	1276.7	1414.4	1891.0	2666.0	3005.9
137.5°	1342.6	1468.0	1883.9	2535.4	2825.5
140°	1378.6	1501.6	1879.1	2448.3	2703.2
142.5°	1419.3	1533.0	1874.3	2370.9	2595.3
145°	1480.5	1583.0	1867.1	2269.6	2442.5
147.5°	1539.2	1628.9	1860.5	2184.2	2318.4
150°	1582.4	1655.6	1858.1	2133.3	2241.7
152.5°	1615.9	1684.5	1855.7	2089.7	2179.3
155°	1669.3	1725.0	1852.1	2036.4	2100.8
157.5°	1718.4	1761.2	1852.7	1997.5	2041.5
160°	1747.2	1785.3	1855.1	1975.7	2007.9
162.5°	1771.2	1804.6	1857.5	1956.4	1981.6
165°	1807.1	1830.6	1861.1	1933.3	1948.0
167.5°	1834.7	1848.8	1864.1	1919.3	1924.0
170°	1849.1	1860.8	1864.1	1912.0	1912.0
172.5°	1861.1	1868.1	1864.1	1902.4	1900.0
175°	1873.1	1876.0	1864.1	1890.9	1885.1
177.5°	1877.9	1875.5	1863.5	1880.2	1875.5
180°	1873.1	1873.1	1873.1	1873.1	1873.1

(END OF REPORT)