

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: P564387

Luminaire Tested: **SQ4-PR1-125U-100D-840-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564387
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, 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-PR1-125U-100D-840-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

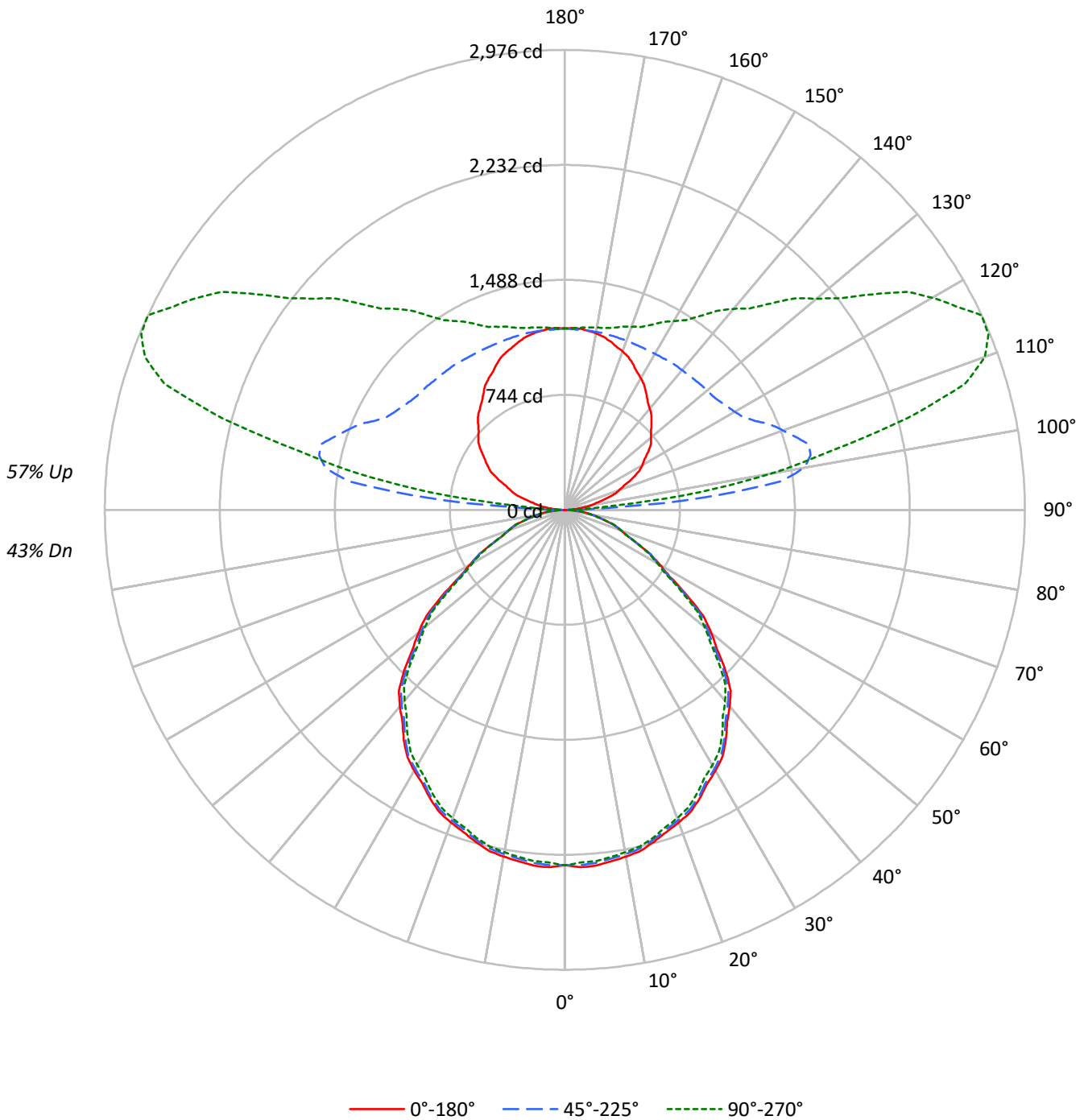
Lumens per Lamp: N/A
Luminaire Lumens: 13326.8 lumens
Efficiency: N/A
Efficacy: 129.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 102.8
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				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	
RCR																					
0	106	106	106	106	96	96	96	96	80	80	80	64	64	64	50	50	50	43	43	43	43
1	96	92	89	85	88	85	81	78	70	68	66	57	55	54	44	43	43	37	37	37	37
2	88	81	75	70	80	74	69	65	62	58	55	50	48	45	39	38	36	31	31	31	31
3	80	71	64	59	73	65	59	54	55	50	46	44	41	39	35	33	31	27	27	27	27
4	74	63	55	50	67	58	51	46	49	44	40	40	36	33	31	29	27	23	23	23	23
5	68	56	48	43	62	52	45	40	44	38	34	36	32	29	28	26	24	20	20	20	20
6	62	51	43	37	57	47	40	35	39	34	30	32	28	25	26	23	21	18	18	18	18
7	58	46	38	32	53	42	35	30	36	30	26	29	25	22	24	21	19	16	16	16	16
8	53	41	34	29	49	38	32	27	32	27	23	27	23	20	22	19	17	14	14	14	14
9	50	38	30	25	45	35	28	24	30	25	21	25	21	18	20	17	15	13	13	13	13
10	46	35	27	23	42	32	26	21	27	22	19	23	19	16	19	16	14	12	12	12	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14147	14147	14147
5°	14274	14164	14090
10°	14229	14130	14055
15°	14166	14078	14002
20°	14095	14004	13901
25°	13995	13902	13740
30°	13845	13747	13549
35°	13640	13521	13328
40°	13329	13187	12948
45°	12786	12562	12303
50°	11829	11544	11317
55°	10325	10091	9879
60°	8700	8627	8456
65°	7524	7554	7497
70°	6911	6947	6947
75°	6638	6638	6685
80°	6245	6316	6245
85°	5032	5589	5589



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.5	1.6
10°-20°	622.3	4.7
20°-30°	938.6	7.0
30°-40°	1118.3	8.4
40°-50°	1102.6	8.3
50°-60°	842.6	6.3
60°-70°	521.5	3.9
70°-80°	296.2	2.2
80°-90°	92.8	0.7
90°-100°	548.9	4.1
100°-110°	1478.5	11.1
110°-120°	1551.7	11.6
120°-130°	1259.2	9.4
130°-140°	987.5	7.4
140°-150°	758.2	5.7
150°-160°	545.1	4.1
160°-170°	333.0	2.5
170°-180°	112.3	0.8
0°-30°	1778.4	13.3
0°-40°	2896.7	21.7
0°-60°	4841.9	36.3
0°-90°	5752.4	43.2
90°-120°	3579.1	26.9
90°-150°	6584.0	49.4
90°-180°	7574.0	56.8
0°-180°	13326.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2300	2300	2300	2300	2300	
5°	2312	2287	2294	2286	2282	219
15°	2225	2201	2211	2203	2199	628
25°	2062	2037	2048	2026	2025	949
35°	1817	1795	1801	1777	1775	1134
45°	1470	1450	1444	1418	1414	1126
55°	963	947	941	925	921	863
65°	517	513	519	515	515	524
75°	279	279	279	281	281	295
85°	71	75	79	79	79	83
90°	3	9	18	19	19	9
95°	84	298	900	460	318	87
105°	274	426	1635	2446	2296	288
115°	483	591	1362	2631	2976	475
125°	659	757	1223	2066	2432	589
135°	794	886	1188	1667	1888	613
145°	918	989	1173	1425	1530	576
155°	1042	1080	1163	1279	1320	480
165°	1130	1143	1167	1214	1220	319
175°	1175	1173	1169	1185	1182	112
180°	1173	1173	1173	1173	1173	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2300.0	2300.0	2300.0	2300.0	2300.0
2.5°	2314.2	2294.1	2300.0	2295.0	2284.1
5°	2311.9	2286.7	2294.0	2286.0	2282.1
7.5°	2294.0	2269.2	2276.6	2268.6	2266.3
10°	2278.2	2254.9	2262.3	2254.3	2250.4
12.5°	2260.7	2235.9	2244.9	2235.3	2231.4
15°	2224.7	2201.4	2210.8	2202.8	2198.9
17.5°	2185.1	2160.3	2169.6	2160.4	2155.4
20°	2153.4	2130.1	2139.5	2125.6	2123.7
22.5°	2118.5	2095.3	2104.6	2086.0	2085.6
25°	2062.2	2037.1	2048.4	2026.5	2024.6
27.5°	1995.3	1972.0	1981.4	1959.2	1956.9
30°	1949.3	1926.1	1935.5	1911.6	1907.7
32.5°	1897.0	1875.3	1883.2	1859.3	1857.0
35°	1816.6	1795.3	1800.7	1776.9	1775.0
37.5°	1725.1	1705.7	1708.8	1682.6	1680.7
40°	1660.1	1640.7	1642.3	1614.5	1612.6
42.5°	1588.8	1569.4	1567.8	1540.0	1538.1
45°	1469.9	1450.5	1444.2	1418.3	1414.4
47.5°	1334.4	1315.0	1303.1	1282.1	1279.3
50°	1236.2	1216.8	1206.4	1188.5	1182.7
52.5°	1130.0	1110.6	1101.8	1085.5	1079.7
55°	962.8	947.3	941.0	925.0	921.2
57.5°	803.9	793.4	791.6	776.1	774.6
60°	707.2	701.4	701.3	687.4	687.4
62.5°	624.8	620.6	623.6	614.5	612.9
65°	517.0	513.2	519.0	515.1	515.1
67.5°	431.9	431.9	435.4	433.8	433.8
70°	384.3	384.3	386.3	386.3	386.3
72.5°	341.5	340.0	345.1	345.1	343.5
75°	279.3	279.3	279.3	281.3	281.3
77.5°	217.5	217.9	219.5	219.1	217.5
80°	176.3	178.2	178.3	176.3	176.3
82.5°	135.1	137.0	137.1	136.7	135.1
85°	71.3	75.2	79.2	79.2	79.2
87.5°	21.2	28.6	35.3	35.5	34.0
90°	3.0	8.8	17.9	19.4	19.4
92.5°	36.5	128.8	254.7	122.6	85.2
95°	83.7	298.5	899.8	460.1	318.4
97.5°	133.6	341.7	1411.3	1179.0	889.0
100°	171.9	359.0	1573.9	1646.7	1366.1
102.5°	209.0	383.2	1627.7	1997.0	1766.7
105°	273.5	425.5	1635.2	2446.3	2295.8
107.5°	334.5	470.1	1565.5	2677.2	2716.1
110°	375.2	503.8	1502.1	2748.9	2890.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	418.2	537.5	1441.2	2733.1	2966.0
115°	482.8	590.9	1361.6	2631.0	2975.9
117.5°	541.7	643.1	1300.1	2468.1	2852.1
120°	579.9	677.8	1269.0	2351.1	2745.7
122.5°	613.4	710.2	1246.3	2231.5	2624.9
125°	659.1	757.1	1222.6	2066.5	2431.8
127.5°	703.1	799.5	1207.7	1920.9	2247.1
130°	729.4	825.9	1201.7	1837.5	2123.9
132.5°	755.7	851.0	1195.7	1764.0	2027.1
135°	793.7	885.7	1188.3	1667.1	1887.8
137.5°	829.8	918.1	1184.4	1584.9	1766.1
140°	855.0	939.7	1180.8	1534.3	1697.9
142.5°	881.3	960.2	1178.4	1487.0	1625.0
145°	917.7	989.3	1173.3	1425.3	1530.5
147.5°	957.2	1019.4	1168.2	1373.4	1456.1
150°	983.5	1037.6	1165.8	1340.8	1409.5
152.5°	1007.4	1054.5	1164.6	1314.2	1370.0
155°	1041.8	1079.8	1162.9	1278.9	1319.8
157.5°	1072.0	1101.5	1163.2	1254.1	1281.5
160°	1091.1	1116.0	1164.3	1239.5	1260.0
162.5°	1107.8	1128.0	1165.5	1227.5	1242.1
165°	1130.0	1143.1	1167.3	1213.8	1219.7
167.5°	1147.9	1155.5	1168.8	1203.3	1205.6
170°	1159.9	1162.8	1168.8	1197.2	1197.2
172.5°	1167.0	1167.6	1170.0	1191.3	1191.3
175°	1174.8	1173.3	1168.8	1185.2	1182.3
177.5°	1178.1	1175.8	1169.7	1179.2	1176.9
180°	1173.3	1173.3	1173.3	1173.3	1173.3

(END OF REPORT)