

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: P564771

Luminaire Tested: **SQ4-PW1-075U-100D-840-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564771
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-075U-100D-840-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

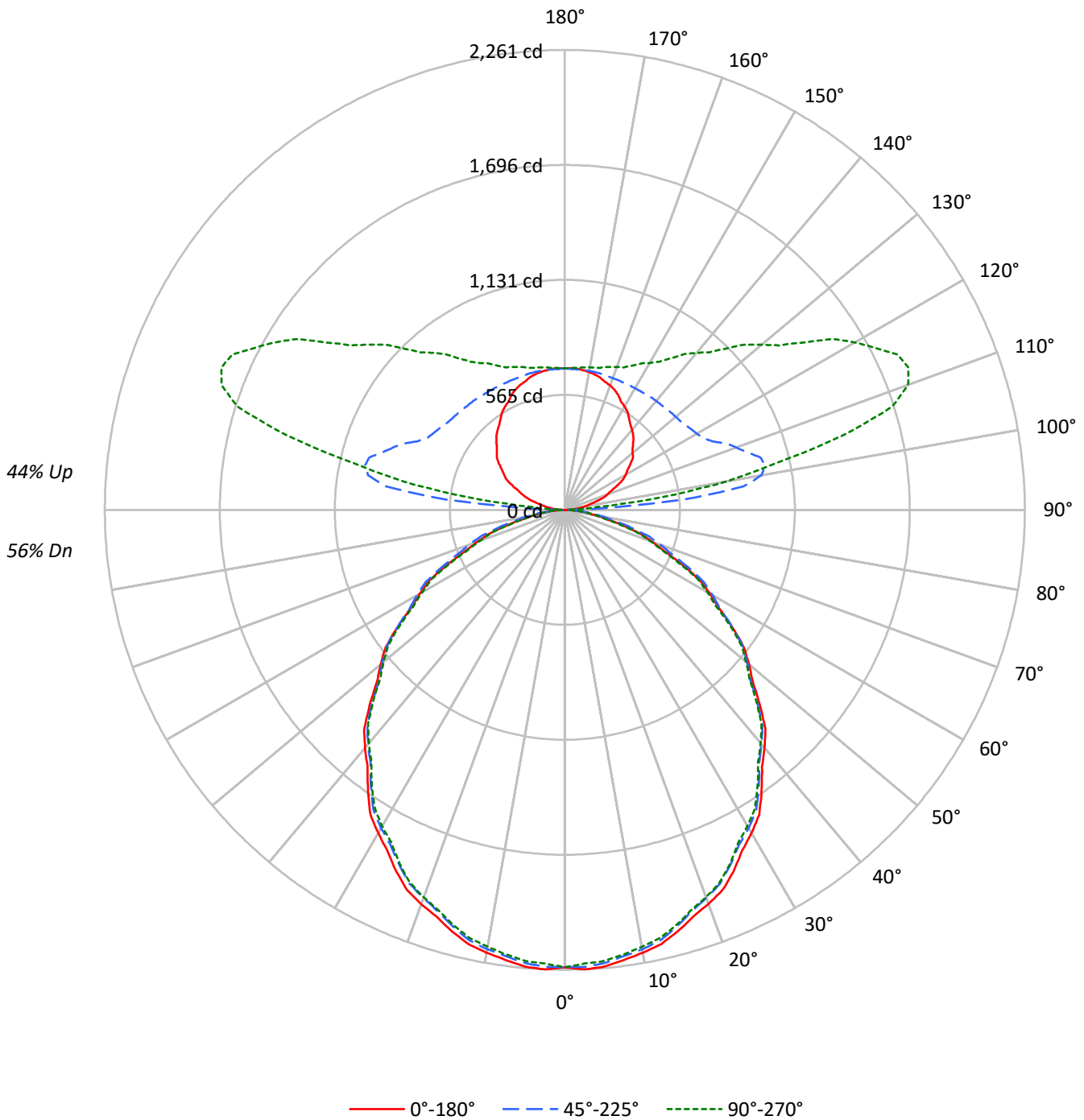
Lumens per Lamp: N/A
Luminaire Lumens: 10258.3 lumens
Efficiency: N/A
Efficacy: 123.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 82.9
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	0
RCR																		
0	109	109	109	109	101	101	101	101	87	87	87	73	73	73	61	61	61	56
1	99	95	91	88	92	88	85	82	76	74	71	65	63	61	55	53	52	47
2	90	83	77	72	84	77	72	67	67	63	59	57	54	51	48	46	44	40
3	83	73	66	60	76	68	62	56	59	54	50	51	47	44	43	40	38	34
4	76	65	57	51	70	60	53	48	52	47	43	45	41	37	38	35	32	29
5	69	58	49	43	64	54	47	41	47	41	37	40	36	32	34	31	28	25
6	64	52	44	38	59	49	41	36	42	37	32	37	32	28	31	28	25	22
7	59	47	39	33	55	44	37	32	38	33	28	33	29	25	29	25	22	20
8	55	43	35	29	51	40	33	28	35	29	25	30	26	23	26	23	20	18
9	51	39	31	26	48	37	30	25	32	27	23	28	24	20	24	21	18	16
10	48	36	28	24	44	34	27	22	30	24	20	26	21	18	22	19	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13830	13830	13830
5°	13919	13809	13748
10°	13808	13697	13622
15°	13662	13511	13460
20°	13498	13291	13265
25°	13310	13068	13028
30°	13029	12832	12747
35°	12659	12480	12406
40°	12264	12073	12025
45°	11787	11632	11580
50°	11298	11203	11128
55°	10771	10771	10600
60°	10113	10309	9943
65°	9255	9716	9025
70°	8159	8942	7945
75°	6968	8004	6780
80°	5402	6737	5473
85°	3493	5173	4615



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.7	2.1
10°-20°	597.8	5.8
20°-30°	886.7	8.6
30°-40°	1037.5	10.1
40°-50°	1032.9	10.1
50°-60°	891.9	8.7
60°-70°	642.0	6.3
70°-80°	336.7	3.3
80°-90°	85.2	0.8
90°-100°	328.4	3.2
100°-110°	903.5	8.8
110°-120°	932.6	9.1
120°-130°	747.2	7.3
130°-140°	586.8	5.7
140°-150°	449.7	4.4
150°-160°	323.3	3.2
160°-170°	197.7	1.9
170°-180°	66.6	0.6
0°-30°	1696.2	16.5
0°-40°	2733.7	26.6
0°-60°	4658.5	45.4
0°-90°	5722.5	55.8
90°-120°	2164.4	21.1
90°-150°	3948.2	38.5
90°-180°	4536.0	44.2
0°-180°	10258.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2248	2248	2248	2248	2248	
5°	2254	2229	2237	2230	2227	214
15°	2146	2118	2122	2118	2114	605
25°	1961	1928	1926	1914	1920	902
35°	1686	1663	1662	1646	1652	1054
45°	1355	1343	1337	1333	1331	1045
55°	1004	1002	1004	990	988	896
65°	636	655	668	641	620	630
75°	293	320	337	314	285	314
85°	50	65	73	69	65	65
90°	2	6	10	13	13	5
95°	49	179	581	248	158	52
105°	162	248	996	1516	1415	170
115°	286	348	798	1590	1804	282
125°	394	449	724	1226	1436	352
135°	476	528	704	991	1121	367
145°	550	587	693	844	910	345
155°	622	642	689	759	781	286
165°	673	681	692	720	724	190
175°	696	698	693	702	701	66
180°	696	696	696	696	696	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2248.5	2248.5	2248.5	2248.5	2248.5
2.5°	2261.1	2242.5	2248.5	2243.5	2232.6
5°	2254.4	2229.2	2236.6	2230.5	2226.7
7.5°	2231.4	2208.2	2213.6	2207.2	2204.9
10°	2210.8	2187.6	2193.0	2185.0	2181.1
12.5°	2187.1	2162.3	2167.6	2159.7	2157.3
15°	2145.5	2118.3	2121.7	2117.6	2113.8
17.5°	2097.1	2069.6	2070.2	2063.8	2063.0
20°	2062.2	2033.2	2030.6	2022.7	2026.6
22.5°	2024.2	1993.6	1990.9	1980.0	1985.4
25°	1961.2	1928.3	1925.6	1913.8	1919.6
27.5°	1888.3	1855.8	1855.8	1839.3	1845.5
30°	1834.4	1803.4	1806.7	1787.1	1794.8
32.5°	1777.4	1749.5	1751.2	1731.6	1739.3
35°	1685.9	1662.6	1662.1	1646.4	1652.2
37.5°	1592.3	1571.8	1568.6	1559.5	1561.0
40°	1527.4	1509.9	1503.6	1497.7	1497.7
42.5°	1459.2	1443.3	1437.0	1432.6	1431.1
45°	1355.0	1343.4	1337.2	1333.2	1331.2
47.5°	1252.0	1241.2	1235.8	1232.9	1231.0
50°	1180.7	1172.9	1170.8	1164.8	1162.9
52.5°	1109.4	1104.7	1102.6	1095.1	1093.1
55°	1004.4	1002.4	1004.4	990.5	988.5
57.5°	895.0	898.1	904.5	885.8	881.2
60°	822.1	829.9	838.0	816.0	808.3
62.5°	747.6	760.0	771.4	746.2	735.4
65°	635.9	655.3	667.6	641.4	620.1
67.5°	528.1	552.2	567.0	538.7	514.7
70°	453.7	480.8	497.2	468.9	441.8
72.5°	388.7	418.9	432.3	405.5	378.4
75°	293.2	320.3	336.8	314.3	285.3
77.5°	208.0	233.6	247.2	227.7	203.6
80°	152.5	179.7	190.2	173.9	154.5
82.5°	108.2	130.6	137.9	128.1	114.9
85°	49.5	65.0	73.3	69.2	65.4
87.5°	13.0	24.7	32.2	32.8	34.4
90°	1.5	5.8	10.4	13.3	13.3
92.5°	20.4	87.4	151.4	58.1	47.7
95°	48.9	179.3	580.7	248.3	158.5
97.5°	79.7	198.8	886.2	682.8	481.8
100°	102.2	210.9	982.2	991.4	808.8
102.5°	123.5	225.2	1007.1	1229.9	1062.5
105°	161.5	248.4	995.5	1516.1	1414.7
107.5°	197.6	277.0	938.9	1656.3	1686.4
110°	223.7	296.1	896.3	1691.2	1795.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	247.4	317.5	853.6	1668.7	1827.5
115°	285.9	348.2	798.5	1590.0	1804.4
117.5°	322.7	380.0	763.5	1479.5	1722.0
120°	345.2	400.2	748.1	1396.7	1647.3
122.5°	365.3	420.4	737.4	1324.2	1562.0
125°	394.1	449.1	724.4	1225.5	1435.5
127.5°	421.3	473.7	715.8	1143.1	1327.3
130°	435.5	489.1	711.1	1094.1	1262.2
132.5°	452.1	505.7	707.5	1051.1	1202.9
135°	475.5	527.7	703.7	991.1	1121.4
137.5°	497.5	545.8	700.4	942.5	1050.0
140°	514.0	559.0	699.2	910.3	1007.4
142.5°	528.3	569.7	696.9	881.5	964.7
145°	549.6	587.3	693.3	844.4	909.6
147.5°	572.4	604.9	691.5	811.5	863.7
150°	586.6	615.6	690.3	793.5	834.0
152.5°	599.7	626.3	689.2	777.9	811.5
155°	622.2	642.5	688.9	759.0	780.7
157.5°	638.5	655.0	688.9	743.4	758.5
160°	650.3	663.4	688.9	735.0	746.6
162.5°	659.8	670.5	690.0	727.9	737.1
165°	672.6	681.2	691.8	720.1	724.4
167.5°	681.4	688.1	693.3	713.5	714.6
170°	687.4	691.7	693.3	711.1	711.1
172.5°	692.1	694.1	693.3	707.5	706.3
175°	696.3	697.7	693.3	702.2	700.7
177.5°	697.4	697.4	692.7	699.8	697.4
180°	696.3	696.3	696.3	696.3	696.3

(END OF REPORT)