

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: P564935

Luminaire Tested: **SQ4-PW1-100U-075D-835-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564935
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-PW1-100U-075D-835-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

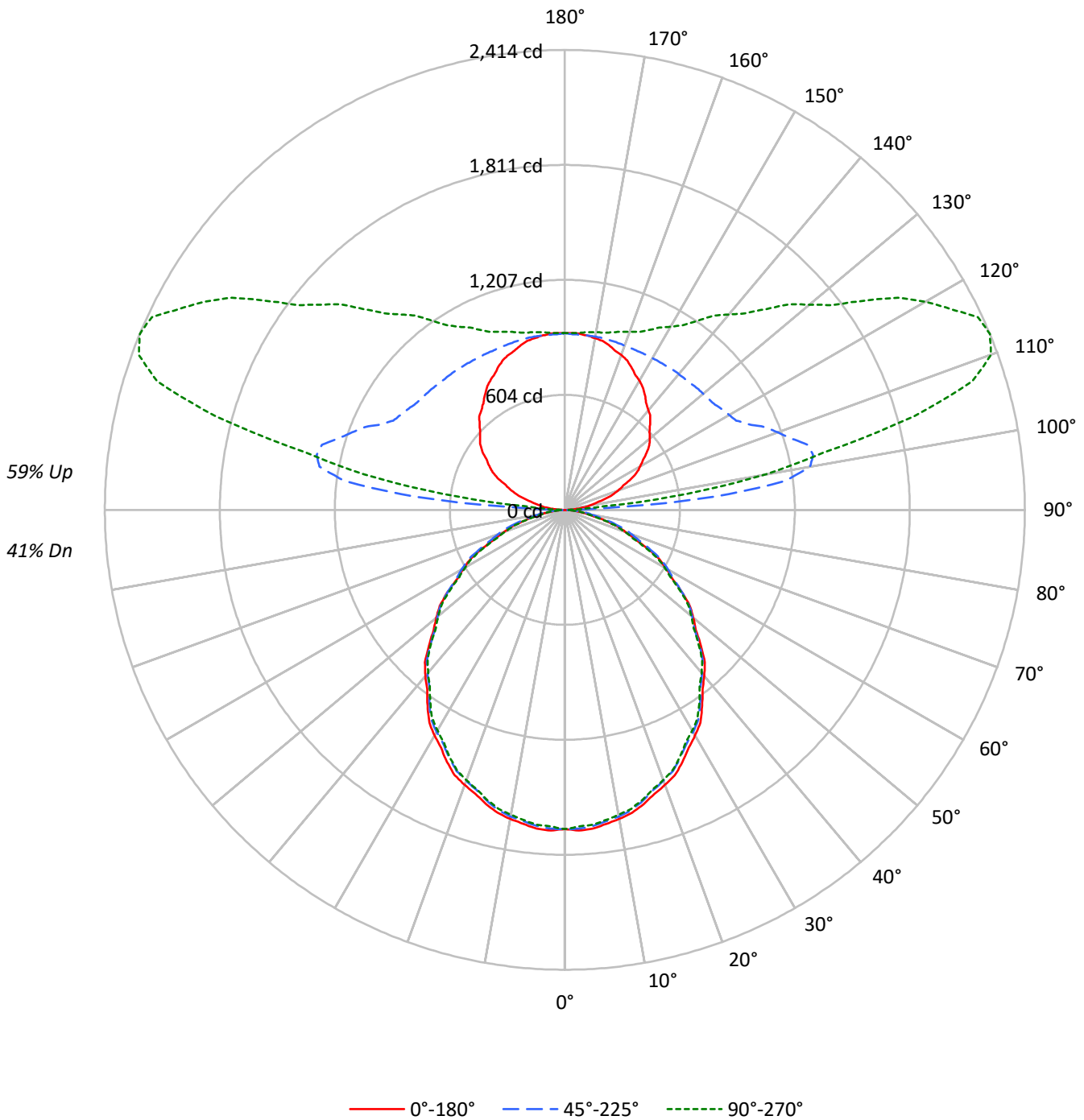
Lumens per Lamp: N/A
Luminaire Lumens: 10289.0 lumens
Efficiency: N/A
Efficacy: 131.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 78
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	105	105	105	105	96	96	96	96	79	79	79	63	63	63	48	48	48	41				
1	96	92	88	85	87	84	81	78	69	67	65	55	54	52	43	42	41	35				
2	87	80	74	69	79	73	68	64	60	57	54	49	46	44	38	36	35	30				
3	80	70	63	58	72	65	58	53	53	49	45	43	40	37	33	31	29	25				
4	73	62	55	49	66	57	50	45	47	42	38	38	35	32	30	27	25	22				
5	67	55	48	42	61	51	44	39	42	37	33	34	31	28	27	24	22	19				
6	62	50	42	36	56	46	39	34	38	33	29	31	27	24	24	22	19	16				
7	57	45	37	32	52	41	34	29	35	29	25	28	24	21	22	19	17	15				
8	53	41	33	28	48	37	31	26	31	26	22	26	22	19	20	18	15	13				
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	16	14	12				
10	46	34	27	22	42	31	25	21	26	21	18	22	18	15	18	15	13	11				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10305	10305	10305
5°	10372	10289	10244
10°	10289	10205	10150
15°	10180	10067	10029
20°	10058	9903	9884
25°	9917	9737	9707
30°	9708	9561	9498
35°	9432	9299	9244
40°	9138	8996	8960
45°	8782	8667	8628
50°	8419	8348	8291
55°	8026	8026	7899
60°	7536	7681	7408
65°	6896	7239	6724
70°	6079	6663	5920
75°	5193	5963	5052
80°	4027	5019	4077
85°	2604	3853	3437



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.8	1.5
10°-20°	445.4	4.3
20°-30°	660.7	6.4
30°-40°	773.1	7.5
40°-50°	769.6	7.5
50°-60°	664.6	6.5
60°-70°	478.4	4.6
70°-80°	250.9	2.4
80°-90°	64.1	0.6
90°-100°	434.2	4.2
100°-110°	1198.7	11.7
110°-120°	1236.3	12.0
120°-130°	993.5	9.7
130°-140°	780.8	7.6
140°-150°	598.8	5.8
150°-160°	430.4	4.2
160°-170°	263.2	2.6
170°-180°	88.7	0.9
0°-30°	1263.9	12.3
0°-40°	2036.9	19.8
0°-60°	3471.1	33.7
0°-90°	4264.5	41.4
90°-120°	2869.2	27.9
90°-150°	5242.2	50.9
90°-180°	6024.0	58.5
0°-180°	10289.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1675	1675	1675	1675	1675	
5°	1680	1661	1666	1662	1659	159
15°	1599	1578	1581	1578	1575	451
25°	1461	1437	1435	1426	1430	672
35°	1256	1239	1238	1227	1231	785
45°	1010	1001	996	993	992	779
55°	748	747	748	738	737	668
65°	474	488	497	478	462	470
75°	218	239	251	234	213	234
85°	37	48	55	52	49	49
90°	3	6	12	13	15	6
95°	64	235	788	324	211	68
105°	214	330	1319	2013	1896	227
115°	383	462	1062	2103	2391	376
125°	525	598	963	1629	1912	467
135°	632	700	936	1320	1488	489
145°	733	784	924	1124	1209	459
155°	826	854	917	1008	1040	381
165°	895	906	921	957	964	252
175°	927	929	923	936	933	88
180°	927	927	927	927	927	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1675.4	1675.4	1675.4	1675.4	1675.4
2.5°	1684.8	1671.0	1675.4	1671.6	1663.6
5°	1679.8	1661.0	1666.5	1662.0	1659.1
7.5°	1662.7	1645.4	1649.4	1644.6	1642.9
10°	1647.3	1630.0	1634.0	1628.1	1625.2
12.5°	1629.6	1611.1	1615.1	1609.2	1607.5
15°	1598.6	1578.4	1580.9	1577.9	1575.0
17.5°	1562.6	1542.1	1542.5	1537.8	1537.2
20°	1536.6	1515.0	1513.0	1507.2	1510.0
22.5°	1508.3	1485.5	1483.5	1475.3	1479.3
25°	1461.3	1436.8	1434.8	1426.0	1430.3
27.5°	1407.0	1382.8	1382.8	1370.5	1375.1
30°	1366.9	1343.8	1346.2	1331.6	1337.3
32.5°	1324.4	1303.6	1304.9	1290.2	1296.0
35°	1256.2	1238.8	1238.4	1226.7	1231.1
37.5°	1186.5	1171.2	1168.8	1162.0	1163.2
40°	1138.1	1125.1	1120.4	1115.9	1115.9
42.5°	1087.3	1075.5	1070.8	1067.5	1066.3
45°	1009.6	1001.0	996.4	993.4	991.9
47.5°	932.9	924.8	920.8	918.7	917.2
50°	879.8	874.0	872.4	867.9	866.5
52.5°	826.6	823.1	821.6	816.0	814.5
55°	748.4	746.9	748.4	738.0	736.6
57.5°	666.9	669.2	674.0	660.0	656.6
60°	612.6	618.4	624.4	608.0	602.2
62.5°	557.1	566.3	574.8	556.0	547.9
65°	473.8	488.3	497.4	477.9	462.0
67.5°	393.5	411.4	422.5	401.4	383.5
70°	338.0	358.2	370.5	349.4	329.2
72.5°	289.6	312.1	322.1	302.1	281.9
75°	218.5	238.7	250.9	234.2	212.6
77.5°	155.0	174.0	184.2	169.6	151.7
80°	113.7	133.9	141.7	129.6	115.1
82.5°	80.6	97.3	102.7	95.4	85.6
85°	36.9	48.4	54.6	51.6	48.7
87.5°	10.0	18.7	24.8	25.1	26.6
90°	3.0	5.9	11.9	13.4	14.8
92.5°	26.7	110.8	198.2	72.3	56.4
95°	63.8	235.0	787.8	323.8	210.7
97.5°	105.6	263.2	1166.9	898.4	650.7
100°	136.5	280.1	1307.0	1316.2	1069.6
102.5°	166.2	299.3	1334.3	1626.3	1392.4
105°	213.6	329.7	1318.9	2013.4	1895.9
107.5°	264.1	367.3	1245.3	2200.2	2243.1
110°	299.7	392.5	1188.3	2240.3	2379.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	331.7	421.1	1134.9	2208.6	2414.0
115°	382.7	462.5	1062.2	2102.8	2391.4
117.5°	427.3	506.7	1014.4	1953.8	2282.3
120°	456.9	535.3	995.4	1853.0	2183.7
122.5°	485.4	560.3	980.0	1758.9	2072.2
125°	525.2	597.7	962.8	1629.4	1912.3
127.5°	559.0	631.5	952.7	1519.9	1763.9
130°	581.5	654.1	948.0	1453.0	1674.9
132.5°	602.9	672.0	943.2	1396.7	1597.8
135°	632.0	700.2	936.1	1319.7	1488.0
137.5°	664.6	726.7	932.5	1255.1	1398.7
140°	682.4	743.3	930.2	1211.9	1338.1
142.5°	702.6	758.9	927.8	1173.6	1284.7
145°	732.9	783.6	924.2	1123.5	1209.1
147.5°	761.9	806.3	921.0	1081.2	1147.7
150°	783.3	819.6	919.8	1056.0	1109.7
152.5°	799.9	833.9	918.6	1034.4	1078.8
155°	826.3	853.9	916.8	1008.0	1040.0
157.5°	850.7	871.8	917.1	988.8	1010.6
160°	864.9	883.8	918.3	978.0	994.0
162.5°	876.8	893.3	919.5	968.4	980.9
165°	894.6	906.2	921.3	957.0	964.3
167.5°	908.2	915.2	922.8	950.1	952.4
170°	915.3	921.1	922.8	946.5	946.5
172.5°	921.3	924.7	922.8	941.7	940.6
175°	927.2	928.7	922.8	936.0	933.1
177.5°	929.6	928.4	922.5	930.7	928.4
180°	927.2	927.2	927.2	927.2	927.2

(END OF REPORT)