

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: P562290

Luminaire Tested: **SQ4-PW1-075U-125D-92765-1D-UNV-STD-W-4 (5700K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562290
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, 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-125D-92765-1D-UNV-STD-W-4 (5700K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

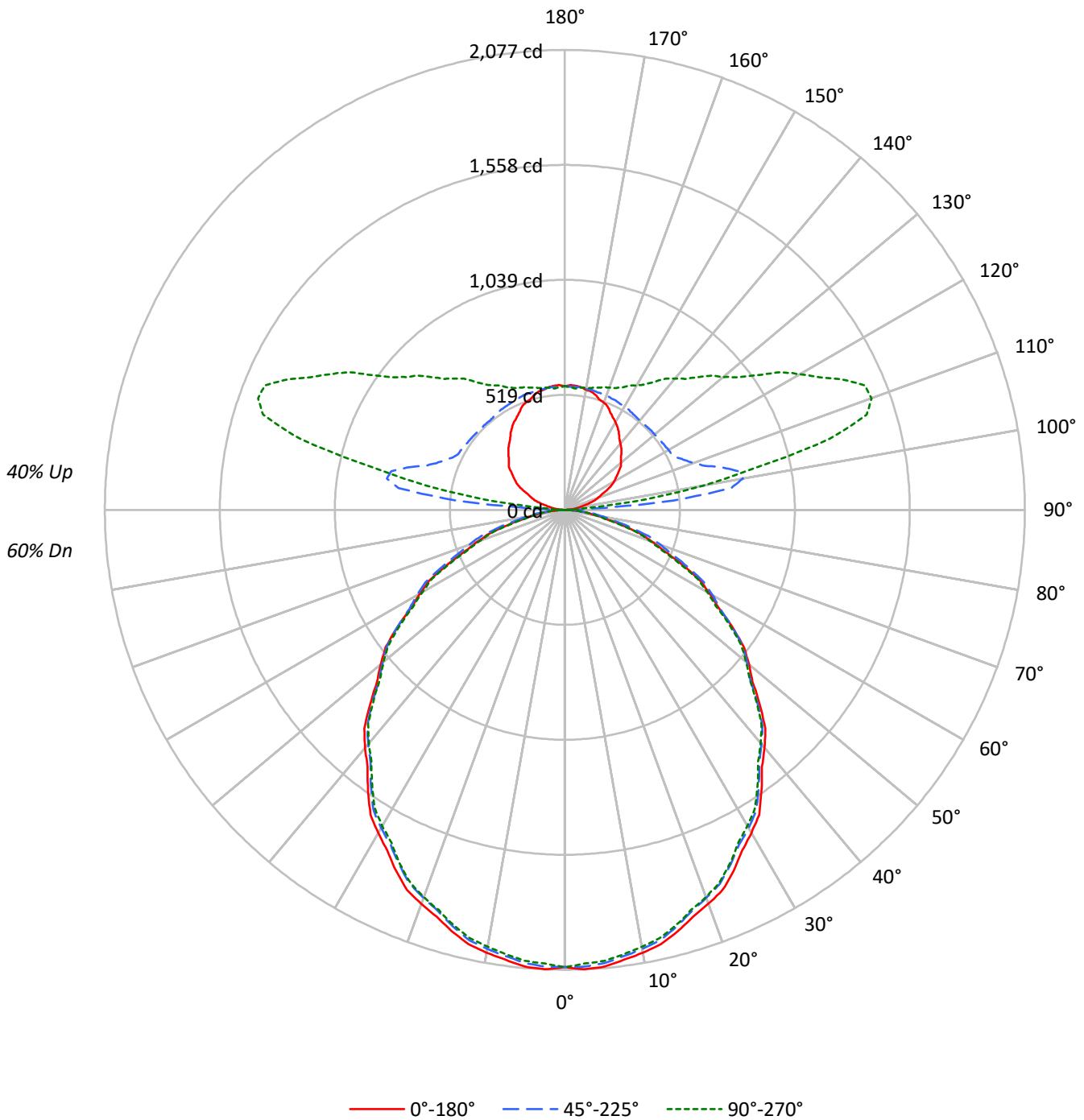
Lumens per Lamp: N/A
Luminaire Lumens: 8720.9 lumens
Efficiency: N/A
Efficacy: 110.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 79.2
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	110	110	110	110	102	102	102	102	89	89	89	77	77	77	66	66	66	60
1	100	96	92	88	94	90	86	83	78	76	74	68	66	64	58	57	56	51
2	91	84	78	72	85	79	73	69	69	65	61	60	57	54	51	49	47	43
3	83	74	66	60	78	69	63	57	61	56	51	53	49	46	46	43	40	36
4	76	65	57	51	71	61	54	49	54	48	44	47	43	39	41	37	35	31
5	70	58	50	44	65	55	48	42	48	42	38	42	38	34	37	33	30	27
6	65	52	44	38	60	49	42	37	44	38	33	38	34	30	33	30	27	24
7	60	47	39	34	56	45	37	32	40	34	29	35	30	26	30	27	24	21
8	56	43	35	30	52	41	34	29	36	30	26	32	27	24	28	24	21	19
9	52	39	32	27	48	37	30	26	33	27	23	29	25	21	26	22	19	17
10	48	36	29	24	45	34	28	23	31	25	21	27	23	19	24	20	17	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19053	19053	19053
5°	19176	19024	18940
10°	19023	18869	18767
15°	18821	18612	18543
20°	18596	18310	18275
25°	18336	18003	17947
30°	17949	17677	17561
35°	17439	17193	17091
40°	16895	16631	16566
45°	16238	16024	15954
50°	15565	15434	15329
55°	14839	14839	14604
60°	13933	14201	13697
65°	12749	13385	12433
70°	11238	12320	10944
75°	9600	11026	9340
80°	7444	9282	7539
85°	4817	7124	6352



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.5	2.2
10°-20°	549.0	6.3
20°-30°	814.4	9.3
30°-40°	952.9	10.9
40°-50°	948.6	10.9
50°-60°	819.2	9.4
60°-70°	589.6	6.8
70°-80°	309.2	3.5
80°-90°	76.7	0.9
90°-100°	254.3	2.9
100°-110°	723.6	8.3
110°-120°	693.3	8.0
120°-130°	548.7	6.3
130°-140°	440.5	5.1
140°-150°	344.8	4.0
150°-160°	252.3	2.9
160°-170°	156.3	1.8
170°-180°	53.0	0.6
0°-30°	1557.8	17.9
0°-40°	2510.7	28.8
0°-60°	4278.5	49.1
0°-90°	5254.0	60.2
90°-120°	1671.3	19.2
90°-150°	3005.3	34.5
90°-180°	3467.0	39.8
0°-180°	8720.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2065	2065	2065	2065	2065	
5°	2070	2047	2054	2049	2045	196
15°	1970	1946	1949	1945	1941	555
25°	1801	1771	1768	1758	1763	828
35°	1548	1527	1526	1512	1517	968
45°	1244	1234	1228	1224	1223	960
55°	922	921	922	910	908	823
65°	584	602	613	589	570	579
75°	269	294	309	289	262	289
85°	46	60	67	64	60	60
90°	0	0	0	0	0	3
95°	28	110	492	170	105	32
105°	112	171	737	1303	1238	119
115°	209	253	559	1185	1391	206
125°	295	327	534	886	1059	264
135°	361	391	527	748	846	278
145°	426	447	532	648	706	266
155°	486	497	544	585	609	225
165°	537	539	551	563	571	151
175°	562	559	557	554	550	53
180°	558	558	558	558	558	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2065.1	2065.1	2065.1	2065.1	2065.1
2.5°	2076.7	2059.6	2065.1	2060.5	2050.5
5°	2070.5	2047.4	2054.1	2048.6	2045.0
7.5°	2049.4	2028.1	2033.0	2027.2	2025.0
10°	2030.5	2009.1	2014.1	2006.7	2003.2
12.5°	2008.6	1985.9	1990.8	1983.5	1981.4
15°	1970.4	1945.5	1948.6	1944.9	1941.3
17.5°	1926.0	1900.8	1901.3	1895.5	1894.8
20°	1894.0	1867.3	1864.9	1857.7	1861.3
22.5°	1859.1	1831.0	1828.5	1818.4	1823.4
25°	1801.2	1771.0	1768.5	1757.7	1763.0
27.5°	1734.3	1704.4	1704.4	1689.3	1695.0
30°	1684.8	1656.3	1659.3	1641.3	1648.4
32.5°	1632.4	1606.8	1608.4	1590.3	1597.5
35°	1548.3	1527.0	1526.5	1512.1	1517.4
37.5°	1462.5	1443.6	1440.6	1432.3	1433.7
40°	1402.8	1386.8	1380.9	1375.5	1375.5
42.5°	1340.2	1325.6	1319.8	1315.8	1314.4
45°	1244.5	1233.8	1228.1	1224.4	1222.7
47.5°	1149.9	1139.9	1135.0	1132.4	1130.6
50°	1084.4	1077.3	1075.3	1069.8	1068.0
52.5°	1018.9	1014.6	1012.7	1005.7	1004.0
55°	922.5	920.7	922.5	909.7	907.9
57.5°	822.0	824.9	830.8	813.6	809.3
60°	755.1	762.2	769.6	749.4	742.3
62.5°	686.7	698.0	708.5	685.3	675.4
65°	584.0	601.8	613.1	589.1	569.5
67.5°	485.1	507.1	520.7	494.7	472.7
70°	416.6	441.6	456.7	430.6	405.7
72.5°	357.0	384.7	397.0	372.4	347.5
75°	269.3	294.2	309.3	288.7	262.0
77.5°	191.0	214.5	227.1	209.1	187.0
80°	140.1	165.0	174.7	159.7	141.9
82.5°	99.3	120.0	126.6	117.6	105.5
85°	45.5	59.7	67.3	63.6	60.0
87.5°	11.6	21.6	27.7	27.7	29.1
90°	0.0	0.0	0.0	0.0	0.0
92.5°	8.5	45.0	104.4	30.4	22.9
95°	27.6	109.5	492.3	170.4	105.0
97.5°	50.7	128.3	758.2	542.6	371.8
100°	66.8	139.5	816.0	826.5	636.6
102.5°	84.7	151.5	803.2	1057.9	892.1
105°	112.5	170.6	737.4	1302.6	1238.3
107.5°	140.7	192.8	660.6	1371.6	1428.8
110°	160.2	209.0	616.5	1345.2	1473.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	178.9	225.2	586.8	1282.8	1466.2
115°	209.0	252.6	559.2	1184.6	1391.1
117.5°	235.6	276.4	542.8	1077.3	1296.0
120°	256.8	291.0	541.1	1016.0	1225.5
122.5°	273.8	308.0	536.9	962.1	1156.8
125°	295.0	327.1	533.7	885.7	1058.9
127.5°	318.1	348.2	532.0	840.0	982.8
130°	330.0	360.1	529.5	808.2	932.7
132.5°	342.7	372.0	529.5	783.3	897.9
135°	360.8	390.9	527.4	748.1	845.7
137.5°	377.7	407.0	527.1	718.4	802.6
140°	390.5	420.6	526.3	693.7	774.6
142.5°	404.9	430.0	528.8	673.9	746.6
145°	425.5	447.3	531.6	647.5	705.6
147.5°	443.1	464.3	536.3	620.8	671.0
150°	458.4	472.9	538.0	612.0	647.3
152.5°	470.3	485.6	539.7	600.0	632.8
155°	486.0	497.4	544.3	585.2	609.1
157.5°	505.5	512.3	545.4	578.5	595.5
160°	515.7	520.9	549.6	573.3	587.8
162.5°	521.6	527.6	550.5	569.0	580.2
165°	536.9	539.0	550.7	562.6	570.9
167.5°	547.3	545.4	555.6	561.0	564.3
170°	550.7	549.7	553.9	555.0	559.2
172.5°	558.3	554.8	556.4	553.3	556.6
175°	562.4	559.3	557.1	553.8	549.6
177.5°	564.1	559.1	556.4	553.0	553.9
180°	558.1	558.1	558.1	558.1	558.1

(END OF REPORT)