

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: P564044

Luminaire Tested: **SQ4-PR1-075U-050D-830-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564044
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-PR1-075U-050D-830-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

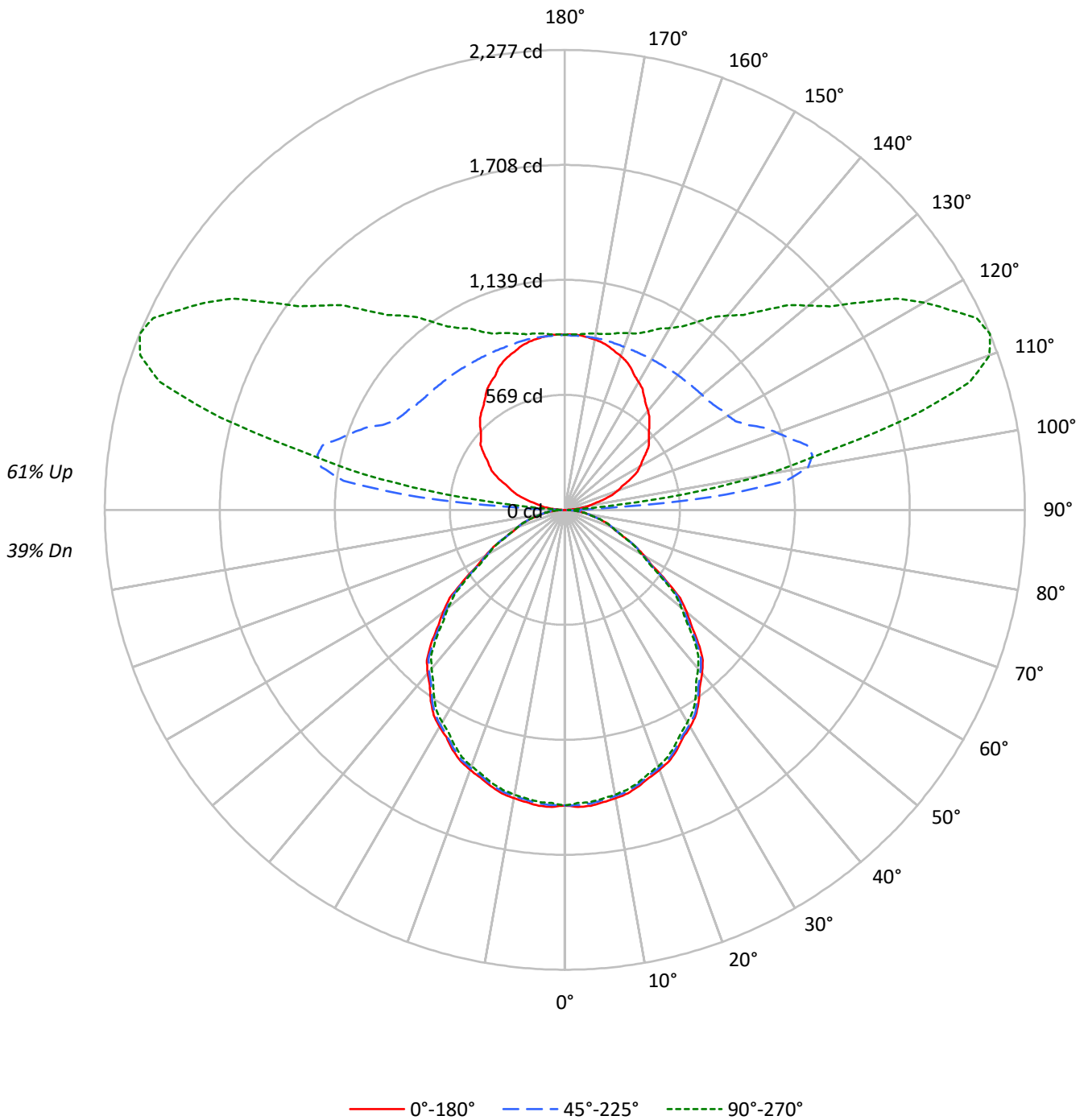
Lumens per Lamp: N/A
Luminaire Lumens: 9312.0 lumens
Efficiency: N/A
Efficacy: 129.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 71.8
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	105	105	105	105	95	95	95	95	77	77	77	61	61	61	46	46	46	39
1	96	91	88	84	87	83	80	77	68	66	64	54	53	51	41	40	39	34
2	87	80	74	69	79	73	68	64	60	56	53	48	45	43	37	35	34	28
3	80	71	63	58	72	64	58	53	53	49	45	42	39	37	33	31	29	24
4	73	63	55	49	66	57	51	45	47	42	38	38	34	32	29	27	25	21
5	67	56	48	42	61	51	44	39	42	37	33	34	30	27	26	24	22	18
6	62	50	42	36	56	46	39	34	38	33	29	31	27	24	24	21	19	16
7	57	45	37	32	52	41	35	30	34	29	25	28	24	21	22	19	17	14
8	53	41	33	28	48	38	31	26	31	26	23	26	22	19	20	17	15	13
9	49	37	30	25	45	34	28	23	29	24	20	23	20	17	19	16	14	12
10	46	34	27	22	42	31	25	21	26	22	18	22	18	15	17	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6750	6750	6750
5°	6811	6759	6724
10°	6790	6743	6707
15°	6760	6718	6682
20°	6726	6682	6633
25°	6679	6634	6556
30°	6606	6559	6466
35°	6509	6452	6360
40°	6360	6292	6179
45°	6101	5994	5871
50°	5644	5509	5400
55°	4927	4815	4714
60°	4152	4117	4036
65°	3591	3604	3577
70°	3298	3315	3315
75°	3167	3167	3190
80°	2981	3013	2981
85°	2403	2668	2668



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.4	1.5
10°-20°	395.9	4.3
20°-30°	597.2	6.4
30°-40°	711.5	7.6
40°-50°	701.5	7.5
50°-60°	536.1	5.8
60°-70°	331.8	3.6
70°-80°	188.4	2.0
80°-90°	59.5	0.6
90°-100°	409.2	4.4
100°-110°	1125.7	12.1
110°-120°	1161.9	12.5
120°-130°	931.0	10.0
130°-140°	731.2	7.9
140°-150°	560.3	6.0
150°-160°	402.9	4.3
160°-170°	246.4	2.6
170°-180°	83.0	0.9
0°-30°	1131.5	12.2
0°-40°	1843.0	19.8
0°-60°	3080.6	33.1
0°-90°	3660.4	39.3
90°-120°	2696.8	29.0
90°-150°	4919.3	52.8
90°-180°	5652.0	60.7
0°-180°	9312.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1463	1463	1463	1463	1463	
5°	1471	1455	1460	1454	1452	140
15°	1415	1401	1407	1402	1399	399
25°	1312	1296	1303	1289	1288	604
35°	1156	1142	1146	1131	1129	721
45°	935	923	919	902	900	716
55°	613	603	599	589	586	549
65°	329	326	330	328	328	333
75°	178	178	178	179	179	188
85°	45	48	50	50	50	53
90°	2	7	13	17	17	6
95°	61	223	724	309	198	64
105°	201	310	1240	1889	1763	212
115°	356	434	995	1981	2248	352
125°	491	560	903	1527	1789	438
135°	592	658	877	1235	1397	457
145°	685	732	864	1052	1133	429
155°	775	800	858	946	973	356
165°	838	849	862	897	903	236
175°	868	869	864	875	873	82
180°	868	868	868	868	868	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1463.3	1463.3	1463.3	1463.3	1463.3
2.5°	1472.4	1459.6	1463.3	1460.2	1453.2
5°	1470.9	1454.9	1459.6	1454.5	1452.0
7.5°	1459.6	1443.8	1448.5	1443.4	1441.9
10°	1449.5	1434.7	1439.4	1434.3	1431.8
12.5°	1438.4	1422.6	1428.3	1422.2	1419.7
15°	1415.4	1400.6	1406.6	1401.5	1399.1
17.5°	1390.2	1374.5	1380.4	1374.5	1371.3
20°	1370.1	1355.3	1361.2	1352.4	1351.2
22.5°	1347.9	1333.1	1339.1	1327.2	1327.0
25°	1312.1	1296.1	1303.3	1289.4	1288.1
27.5°	1269.5	1254.7	1260.7	1246.5	1245.0
30°	1240.2	1225.5	1231.4	1216.2	1213.8
32.5°	1207.0	1193.2	1198.1	1183.0	1181.5
35°	1155.8	1142.2	1145.7	1130.6	1129.3
37.5°	1097.6	1085.2	1087.2	1070.6	1069.3
40°	1056.2	1043.9	1044.9	1027.2	1026.0
42.5°	1010.8	998.5	997.5	979.8	978.6
45°	935.2	922.9	918.8	902.4	899.9
47.5°	849.0	836.7	829.1	815.7	814.0
50°	786.5	774.2	767.6	756.2	752.5
52.5°	718.9	706.6	701.0	690.6	686.9
55°	612.6	602.7	598.7	588.6	586.1
57.5°	511.5	504.8	503.7	493.8	492.8
60°	450.0	446.3	446.2	437.4	437.4
62.5°	397.5	394.8	396.8	391.0	390.0
65°	329.0	326.5	330.2	327.7	327.7
67.5°	274.8	274.8	277.0	276.0	276.0
70°	244.5	244.5	245.8	245.8	245.8
72.5°	217.3	216.3	219.6	219.5	218.6
75°	177.7	177.7	177.7	179.0	179.0
77.5°	138.4	138.6	139.7	139.4	138.4
80°	112.2	113.4	113.4	112.2	112.2
82.5°	86.0	87.2	87.2	86.9	86.0
85°	45.4	47.8	50.4	50.4	50.4
87.5°	13.5	18.5	22.8	23.5	22.5
90°	1.8	7.3	12.9	16.6	16.6
92.5°	25.5	108.9	188.6	72.4	59.4
95°	60.9	223.3	723.6	309.4	197.5
97.5°	99.3	247.7	1104.2	850.8	600.3
100°	127.4	262.7	1223.8	1235.2	1007.8
102.5°	153.9	280.6	1254.8	1532.4	1323.8
105°	201.2	309.5	1240.4	1889.1	1762.7
107.5°	246.2	345.1	1169.9	2063.7	2101.3
110°	278.7	369.0	1116.7	2107.2	2237.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	308.3	395.6	1063.6	2079.2	2277.0
115°	356.2	433.8	994.9	1981.1	2248.2
117.5°	402.0	473.5	951.3	1843.4	2145.6
120°	430.1	498.7	932.1	1740.3	2052.5
122.5°	455.2	523.8	918.8	1649.9	1946.2
125°	491.0	559.6	902.6	1526.9	1788.6
127.5°	524.9	590.3	891.9	1424.3	1653.8
130°	542.7	609.4	886.0	1363.3	1572.6
132.5°	563.3	630.1	881.6	1309.7	1498.8
135°	592.5	657.5	876.8	1234.8	1397.3
137.5°	619.8	680.1	872.7	1174.4	1308.3
140°	640.5	696.4	871.2	1134.2	1255.2
142.5°	658.2	709.8	868.3	1098.4	1202.0
145°	684.8	731.7	863.8	1052.1	1133.3
147.5°	713.2	753.6	861.6	1011.1	1076.1
150°	730.9	767.0	860.1	988.7	1039.2
152.5°	747.2	780.4	858.7	969.3	1011.1
155°	775.2	800.5	858.3	945.7	972.7
157.5°	795.5	816.1	858.3	926.3	945.1
160°	810.3	826.6	858.3	915.9	930.3
162.5°	822.1	835.5	859.8	906.9	918.5
165°	838.0	848.8	862.0	897.2	902.6
167.5°	849.1	857.4	863.8	889.0	890.4
170°	856.5	861.9	863.8	886.0	886.0
172.5°	862.4	864.9	863.8	881.5	880.1
175°	867.5	869.3	863.8	874.9	873.1
177.5°	869.0	869.0	863.1	871.9	869.0
180°	867.5	867.5	867.5	867.5	867.5

(END OF REPORT)