

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: P563372

Luminaire Tested: **SQ4-PP3-075U-050D-830-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563372
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-075U-050D-830-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

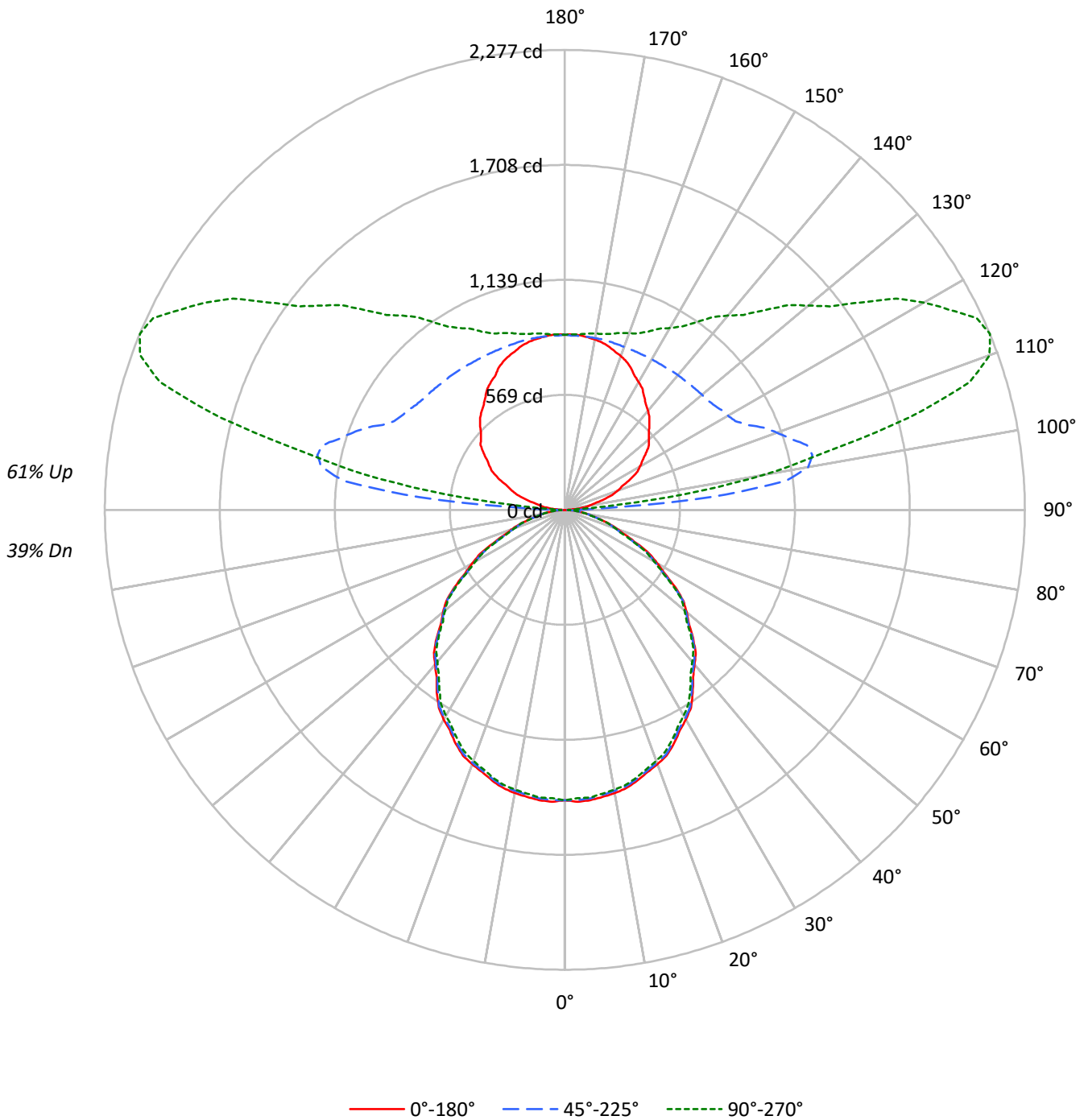
Lumens per Lamp: N/A
Luminaire Lumens: 9333.8 lumens
Efficiency: N/A
Efficacy: 130.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Indirect

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	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	40	34				
2	87	80	74	69	79	73	68	64	60	56	53	48	45	43	36	35	33	28				
3	80	70	63	58	72	64	58	53	53	48	45	42	39	37	32	30	29	24				
4	73	62	55	49	66	57	50	45	47	42	38	38	34	31	29	27	25	21				
5	67	55	47	42	60	51	44	39	42	37	33	34	30	27	26	24	22	18				
6	61	50	42	36	56	46	39	34	38	33	29	30	27	24	24	21	19	16				
7	57	45	37	32	51	41	34	29	34	29	25	28	24	21	22	19	17	14				
8	53	41	33	28	48	37	31	26	31	26	22	25	21	19	20	17	15	13				
9	49	37	30	25	44	34	28	23	28	23	20	23	19	17	18	16	14	11				
10	46	34	27	22	42	31	25	21	26	21	18	21	18	15	17	14	12	10				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6633	6633	6633
5°	6681	6640	6617
10°	6670	6623	6593
15°	6626	6590	6554
20°	6582	6545	6495
25°	6504	6459	6395
30°	6384	6350	6269
35°	6217	6174	6096
40°	6018	5980	5911
45°	5853	5812	5755
50°	5643	5607	5553
55°	5351	5280	5240
60°	4871	4732	4708
65°	4292	4113	4099
70°	3705	3553	3553
75°	3189	3144	3100
80°	2811	2845	2779
85°	2202	2403	2403



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.0	1.5
10°-20°	388.2	4.2
20°-30°	581.5	6.2
30°-40°	682.0	7.3
40°-50°	684.2	7.3
50°-60°	583.6	6.3
60°-70°	380.6	4.1
70°-80°	191.0	2.0
80°-90°	55.1	0.6
90°-100°	409.2	4.4
100°-110°	1125.7	12.1
110°-120°	1161.9	12.4
120°-130°	931.0	10.0
130°-140°	731.2	7.8
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°	1105.6	11.8
0°-40°	1787.7	19.2
0°-60°	3055.5	32.7
0°-90°	3682.2	39.4
90°-120°	2696.8	28.9
90°-150°	4919.3	52.7
90°-180°	5652.0	60.6
0°-180°	9333.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1438	1438	1438	1438	1438	
5°	1443	1429	1434	1429	1429	137
15°	1387	1374	1380	1375	1372	391
25°	1278	1263	1269	1258	1256	588
35°	1104	1093	1096	1084	1082	690
45°	897	891	891	882	882	691
55°	665	663	656	653	652	591
65°	393	386	377	374	376	392
75°	179	179	176	175	174	194
85°	42	45	45	45	45	49
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°	1437.8	1437.8	1437.8	1437.8	1437.8
2.5°	1446.9	1435.0	1437.8	1435.6	1429.7
5°	1442.8	1429.3	1434.0	1429.0	1429.0
7.5°	1433.0	1418.2	1422.9	1417.9	1417.6
10°	1423.9	1409.1	1413.8	1408.8	1407.5
12.5°	1410.8	1396.0	1401.7	1395.7	1395.4
15°	1387.4	1373.8	1379.8	1374.7	1372.3
17.5°	1360.9	1346.1	1353.4	1346.3	1345.3
20°	1340.8	1326.0	1333.2	1323.1	1323.1
22.5°	1316.6	1301.8	1310.0	1296.9	1296.9
25°	1277.8	1263.0	1268.9	1257.6	1256.3
27.5°	1231.6	1217.1	1223.3	1210.5	1210.2
30°	1198.4	1184.8	1192.1	1178.2	1176.9
32.5°	1162.1	1149.5	1154.8	1140.9	1139.6
35°	1103.9	1092.8	1096.3	1083.7	1082.4
37.5°	1042.6	1031.3	1035.3	1024.5	1024.0
40°	999.3	991.9	993.0	984.1	981.6
42.5°	958.9	950.6	951.6	942.8	942.3
45°	897.2	891.0	890.9	882.1	882.1
47.5°	831.7	827.0	825.6	818.3	818.1
50°	786.3	782.6	781.3	774.9	773.7
52.5°	738.9	737.2	732.9	727.6	727.3
55°	665.3	662.9	656.5	652.7	651.5
57.5°	585.4	580.5	573.4	567.8	568.8
60°	528.0	523.1	512.9	510.3	510.3
62.5°	472.5	466.6	456.4	452.9	454.9
65°	393.2	385.8	376.8	374.3	375.5
67.5°	321.1	314.4	304.7	304.7	303.7
70°	274.7	271.0	263.4	263.4	263.4
72.5°	233.4	231.6	226.1	226.0	225.1
75°	178.9	178.9	176.4	175.1	173.9
77.5°	134.1	134.6	133.3	132.0	129.8
80°	105.8	108.3	107.1	105.8	104.6
82.5°	79.6	82.1	81.9	79.6	79.4
85°	41.6	45.3	45.4	45.4	45.4
87.5°	11.5	16.5	18.7	19.5	20.5
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)