

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: P564759

Luminaire Tested: **SQ4-PW1-075U-075D-940-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564759
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-075D-940-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

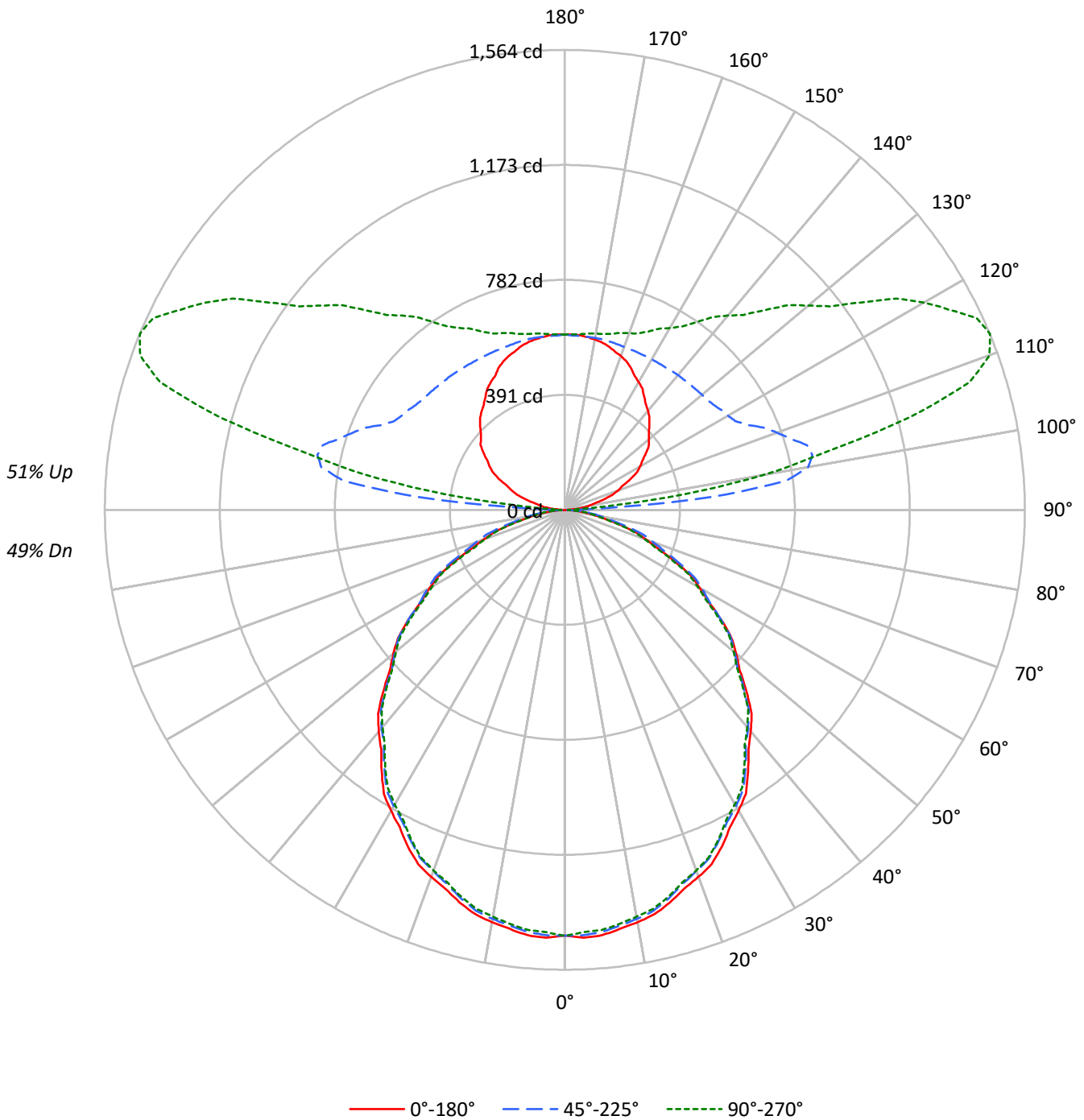
Lumens per Lamp: N/A
Luminaire Lumens: 7568.6 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 68
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	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55	49
1	98	93	89	86	90	86	83	80	73	70	68	60	59	57	49	48	47	41
2	89	82	75	70	82	75	70	66	64	60	56	53	50	48	43	41	39	35
3	81	72	64	59	74	66	60	55	56	51	48	47	43	40	38	36	34	29
4	74	64	56	50	68	59	52	47	50	45	41	42	38	35	34	31	29	25
5	68	57	49	43	63	52	45	40	45	39	35	37	33	30	31	28	25	22
6	63	51	43	37	58	47	40	35	40	35	30	34	30	26	28	25	22	19
7	58	46	38	32	53	43	36	30	37	31	27	31	26	23	25	22	20	17
8	54	42	34	29	50	39	32	27	33	28	24	28	24	21	23	20	18	15
9	50	38	30	25	46	35	29	24	31	25	21	26	22	19	22	18	16	14
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8908	8908	8908
5°	8966	8895	8856
10°	8894	8823	8775
15°	8800	8703	8670
20°	8695	8562	8545
25°	8574	8417	8392
30°	8392	8266	8211
35°	8154	8039	7991
40°	7899	7776	7746
45°	7592	7492	7459
50°	7277	7216	7167
55°	6938	6938	6829
60°	6515	6640	6404
65°	5961	6258	5813
70°	5255	5760	5118
75°	4489	5155	4368
80°	3482	4339	3524
85°	2251	3331	2971



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.4	1.8
10°-20°	385.0	5.1
20°-30°	571.2	7.5
30°-40°	668.3	8.8
40°-50°	665.3	8.8
50°-60°	574.5	7.6
60°-70°	413.6	5.5
70°-80°	216.9	2.9
80°-90°	55.3	0.7
90°-100°	281.1	3.7
100°-110°	773.3	10.2
110°-120°	798.1	10.5
120°-130°	639.5	8.4
130°-140°	502.3	6.6
140°-150°	384.9	5.1
150°-160°	276.7	3.7
160°-170°	169.2	2.2
170°-180°	57.0	0.8
0°-30°	1092.6	14.4
0°-40°	1760.9	23.3
0°-60°	3000.7	39.6
0°-90°	3686.4	48.7
90°-120°	1852.5	24.5
90°-150°	3379.1	44.6
90°-180°	3882.0	51.3
0°-180°	7568.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1448	1448	1448	1448	1448	
5°	1452	1436	1441	1437	1434	138
15°	1382	1364	1367	1364	1362	390
25°	1263	1242	1240	1233	1236	581
35°	1086	1071	1071	1060	1064	679
45°	873	865	861	859	858	673
55°	647	646	647	638	637	577
65°	410	422	430	413	399	406
75°	189	206	217	202	184	202
85°	32	42	47	45	42	42
90°	1	5	9	11	11	4
95°	42	153	497	212	136	44
105°	138	213	852	1298	1211	146
115°	245	298	683	1361	1544	241
125°	337	384	620	1049	1229	301
135°	407	452	602	848	960	314
145°	470	503	593	723	778	295
155°	532	550	590	650	668	245
165°	576	583	592	616	620	162
175°	596	597	593	601	600	57
180°	596	596	596	596	596	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1448.3	1448.3	1448.3	1448.3	1448.3
2.5°	1456.5	1444.5	1448.3	1445.1	1438.1
5°	1452.2	1435.9	1440.7	1436.8	1434.3
7.5°	1437.3	1422.4	1425.9	1421.7	1420.2
10°	1424.1	1409.1	1412.6	1407.4	1404.9
12.5°	1408.8	1392.8	1396.3	1391.1	1389.6
15°	1382.0	1364.5	1366.7	1364.0	1361.6
17.5°	1350.8	1333.1	1333.5	1329.4	1328.9
20°	1328.4	1309.7	1308.0	1302.9	1305.4
22.5°	1303.9	1284.2	1282.4	1275.4	1278.9
25°	1263.3	1242.1	1240.3	1232.8	1236.5
27.5°	1216.3	1195.4	1195.4	1184.8	1188.8
30°	1181.6	1161.7	1163.8	1151.1	1156.1
32.5°	1144.9	1126.9	1128.0	1115.4	1120.4
35°	1085.9	1071.0	1070.6	1060.5	1064.2
37.5°	1025.7	1012.5	1010.4	1004.5	1005.5
40°	983.8	972.6	968.5	964.7	964.7
42.5°	939.9	929.7	925.7	922.8	921.8
45°	872.8	865.3	861.3	858.8	857.5
47.5°	806.5	799.5	796.0	794.2	792.9
50°	760.5	755.5	754.1	750.3	749.0
52.5°	714.6	711.6	710.3	705.4	704.1
55°	647.0	645.7	647.0	638.0	636.8
57.5°	576.5	578.5	582.6	570.6	567.6
60°	529.6	534.6	539.8	525.6	520.6
62.5°	481.6	489.6	496.9	480.7	473.7
65°	409.6	422.1	430.0	413.1	399.4
67.5°	340.2	355.7	365.2	347.0	331.5
70°	292.2	309.7	320.3	302.0	284.6
72.5°	250.4	269.8	278.4	261.2	243.7
75°	188.9	206.3	216.9	202.5	183.8
77.5°	134.0	150.5	159.3	146.6	131.2
80°	98.3	115.7	122.5	112.0	99.5
82.5°	69.7	84.1	88.8	82.5	74.0
85°	31.9	41.9	47.2	44.6	42.1
87.5°	8.4	16.2	21.2	21.7	22.7
90°	1.3	5.0	8.9	11.4	11.4
92.5°	17.5	74.8	129.6	49.8	40.8
95°	41.8	153.4	497.0	212.5	135.7
97.5°	68.2	170.1	758.5	584.4	412.3
100°	87.5	180.5	840.6	848.5	692.3
102.5°	105.7	192.8	861.9	1052.6	909.3
105°	138.2	212.6	852.0	1297.6	1210.8
107.5°	169.1	237.1	803.6	1417.6	1443.4
110°	191.5	253.4	767.1	1447.4	1536.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	211.7	271.7	730.6	1428.2	1564.1
115°	244.7	298.0	683.4	1360.8	1544.3
117.5°	276.1	325.2	653.5	1266.3	1473.8
120°	295.4	342.5	640.3	1195.4	1409.9
122.5°	312.7	359.8	631.2	1133.3	1336.9
125°	337.3	384.4	620.0	1048.8	1228.6
127.5°	360.6	405.5	612.6	978.3	1136.0
130°	372.8	418.6	608.6	936.4	1080.2
132.5°	387.0	432.8	605.5	899.6	1029.5
135°	407.0	451.6	602.2	848.2	959.8
137.5°	425.8	467.2	599.5	806.7	898.7
140°	440.0	478.4	598.4	779.1	862.2
142.5°	452.1	487.6	596.4	754.5	825.6
145°	470.4	502.6	593.4	722.7	778.5
147.5°	489.9	517.7	591.9	694.5	739.2
150°	502.1	526.9	590.8	679.1	713.8
152.5°	513.2	536.1	589.8	665.8	694.5
155°	532.5	549.9	589.6	649.6	668.2
157.5°	546.5	560.6	589.6	636.3	649.2
160°	556.6	567.8	589.6	629.1	639.0
162.5°	564.7	573.9	590.6	623.0	630.9
165°	575.6	583.1	592.1	616.3	620.0
167.5°	583.2	588.9	593.4	610.6	611.6
170°	588.3	592.0	593.4	608.6	608.6
172.5°	592.4	594.1	593.4	605.5	604.5
175°	595.9	597.1	593.4	601.0	599.7
177.5°	596.9	596.9	592.9	598.9	596.9
180°	595.9	595.9	595.9	595.9	595.9

(END OF REPORT)