

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: P564565

Luminaire Tested: **SQ4-PW1-025U-075D-940-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564565
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-PW1-025U-075D-940-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

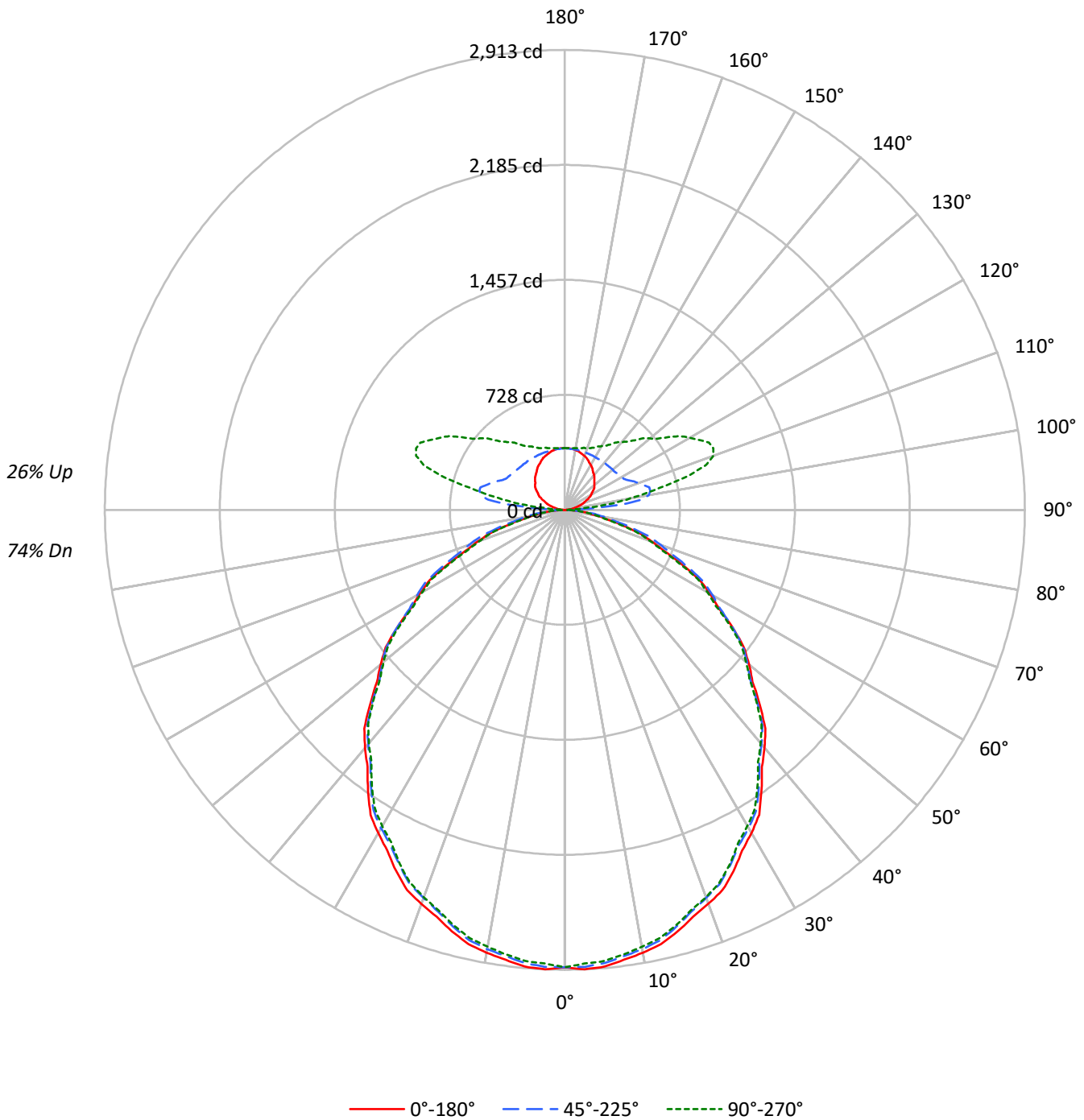
Lumens per Lamp: N/A
Luminaire Lumens: 9902.2 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 94.8
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	113	113	113	113	107	107	107	107	97	97	97	87	87	87	79	79	79	74
1	103	99	95	91	98	94	91	88	85	83	80	77	75	73	70	68	67	63
2	94	87	80	75	89	83	77	72	75	71	67	68	64	61	62	59	56	53
3	86	76	69	63	82	73	66	60	66	61	56	60	56	52	55	51	48	45
4	79	68	59	53	75	65	57	51	59	53	48	54	49	45	49	45	42	39
5	73	60	52	46	69	58	50	44	53	47	42	48	43	39	44	40	36	34
6	67	54	46	40	63	52	44	39	48	41	36	44	38	34	40	36	32	30
7	62	49	41	35	59	47	40	34	43	37	32	40	34	30	37	32	28	26
8	58	45	37	31	55	43	36	30	40	33	29	37	31	27	34	29	26	23
9	54	41	33	28	51	40	32	27	37	30	26	34	28	25	31	26	23	21
10	50	38	30	25	48	36	29	25	34	28	24	31	26	22	29	24	21	19

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	8561	8545
25°	8574	8418	8392
30°	8392	8265	8211
35°	8154	8039	7991
40°	7900	7777	7746
45°	7592	7492	7459
50°	7278	7216	7168
55°	6938	6938	6828
60°	6514	6640	6405
65°	5961	6259	5813
70°	5255	5760	5117
75°	4488	5156	4367
80°	3480	4339	3526
85°	2251	3331	2971



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.8	2.8
10°-20°	770.1	7.8
20°-30°	1142.3	11.5
30°-40°	1336.6	13.5
40°-50°	1330.6	13.4
50°-60°	1149.0	11.6
60°-70°	827.1	8.4
70°-80°	433.7	4.4
80°-90°	109.6	1.1
90°-100°	190.3	1.9
100°-110°	500.2	5.1
110°-120°	518.7	5.2
120°-130°	416.0	4.2
130°-140°	326.4	3.3
140°-150°	250.5	2.5
150°-160°	180.4	1.8
160°-170°	110.4	1.1
170°-180°	37.3	0.4
0°-30°	2185.1	22.1
0°-40°	3521.8	35.6
0°-60°	6001.4	60.6
0°-90°	7371.9	74.4
90°-120°	1209.1	12.2
90°-150°	2202.1	22.2
90°-180°	2530.0	25.5
0°-180°	9902.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2897	2897	2897	2897	2897	
5°	2904	2872	2881	2874	2869	275
15°	2764	2729	2733	2728	2723	779
25°	2527	2484	2481	2466	2473	1162
35°	2172	2142	2141	2121	2128	1358
45°	1746	1731	1723	1718	1715	1347
55°	1294	1291	1294	1276	1274	1154
65°	819	844	860	826	799	812
75°	378	413	434	405	368	405
85°	64	84	94	89	84	84
90°	2	7	20	10	10	4
95°	25	98	328	169	115	28
105°	90	137	553	840	783	95
115°	160	194	443	884	1008	158
125°	223	250	403	681	803	198
135°	265	292	390	550	623	205
145°	308	327	385	469	506	193
155°	348	358	385	423	435	160
165°	375	380	385	400	405	106
175°	390	390	388	393	393	37
180°	390	390	390	390	390	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2896.6	2896.6	2896.6	2896.6	2896.6
2.5°	2913.0	2889.0	2896.6	2890.2	2876.2
5°	2904.3	2871.9	2881.3	2873.6	2868.6
7.5°	2874.7	2844.8	2851.7	2843.5	2840.5
10°	2848.2	2818.2	2825.2	2814.9	2809.9
12.5°	2817.5	2785.6	2792.5	2782.2	2779.2
15°	2763.9	2729.0	2733.3	2728.1	2723.1
17.5°	2701.7	2666.2	2667.0	2658.8	2657.8
20°	2656.7	2619.3	2615.9	2605.8	2610.8
22.5°	2607.7	2568.3	2564.9	2550.7	2557.7
25°	2526.6	2484.2	2480.7	2465.5	2473.0
27.5°	2432.7	2390.7	2390.8	2369.6	2377.5
30°	2363.3	2323.3	2327.5	2302.2	2312.2
32.5°	2289.8	2253.8	2256.1	2230.8	2240.8
35°	2171.8	2141.9	2141.2	2121.0	2128.5
37.5°	2051.4	2024.9	2020.8	2009.1	2011.1
40°	1967.7	1945.2	1937.1	1929.4	1929.4
42.5°	1879.9	1859.4	1851.3	1845.6	1843.6
45°	1745.6	1730.7	1722.7	1717.5	1715.0
47.5°	1612.9	1599.0	1592.0	1588.4	1585.9
50°	1521.1	1511.1	1508.3	1500.6	1498.1
52.5°	1429.2	1423.2	1420.5	1410.7	1408.3
55°	1293.9	1291.4	1293.9	1276.0	1273.5
57.5°	1153.0	1157.0	1165.3	1141.2	1135.2
60°	1059.1	1069.1	1079.5	1051.2	1041.3
62.5°	963.2	979.1	993.8	961.3	947.3
65°	819.2	844.2	860.1	826.3	798.8
67.5°	680.4	711.3	730.4	694.0	663.0
70°	584.4	619.4	640.6	604.1	569.1
72.5°	500.7	539.7	556.9	522.4	487.5
75°	377.7	412.6	433.9	404.9	367.5
77.5°	268.0	300.9	318.5	293.3	262.4
80°	196.5	231.4	245.0	224.0	199.1
82.5°	139.3	168.3	177.6	165.0	148.0
85°	63.8	83.8	94.4	89.2	84.2
87.5°	16.8	31.8	42.8	40.8	42.8
90°	2.5	7.4	20.0	10.0	10.0
92.5°	10.5	50.6	112.1	49.6	32.0
95°	25.0	98.4	327.8	168.9	115.1
97.5°	43.5	108.1	490.5	390.0	287.3
100°	57.6	116.3	540.5	547.8	425.4
102.5°	69.6	124.4	554.5	682.3	577.6
105°	90.1	136.6	553.0	839.5	783.3
107.5°	111.1	154.2	521.5	921.2	934.9
110°	125.1	164.3	495.5	942.2	1001.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	139.1	176.3	471.5	928.9	1019.0
115°	160.2	194.4	442.9	883.7	1008.5
117.5°	180.7	212.0	423.4	820.9	959.4
120°	192.7	222.0	415.4	778.8	913.4
122.5°	204.7	234.1	409.4	736.7	869.3
125°	222.7	249.6	402.9	680.9	803.3
127.5°	237.2	264.6	397.4	636.0	739.2
130°	245.2	274.6	395.4	607.8	703.2
132.5°	253.2	282.6	393.4	583.5	669.1
135°	265.3	292.2	390.4	549.7	623.1
137.5°	277.8	304.2	389.9	524.4	584.6
140°	287.8	312.2	387.9	504.3	560.5
142.5°	295.8	318.3	387.9	490.1	538.5
145°	307.8	327.4	385.4	468.8	505.5
147.5°	319.8	338.9	385.4	451.1	481.5
150°	327.8	344.9	385.4	441.0	465.4
152.5°	335.8	349.0	385.4	432.8	451.4
155°	347.8	357.6	385.4	423.2	435.4
157.5°	356.8	366.1	385.4	414.6	423.4
160°	362.8	370.2	385.4	410.5	415.4
162.5°	368.9	374.2	385.4	406.5	411.4
165°	375.4	380.3	385.4	400.5	405.4
167.5°	381.4	383.8	387.9	397.9	399.9
170°	385.4	387.8	387.9	397.9	397.9
172.5°	387.4	387.9	387.9	395.8	393.9
175°	390.4	390.4	387.9	392.9	392.9
177.5°	390.4	390.4	388.4	392.3	390.4
180°	390.4	390.4	390.4	390.4	390.4

(END OF REPORT)