

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: P564074

Luminaire Tested: **SQ4-PR1-075U-075D-840-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564074
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-075D-840-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

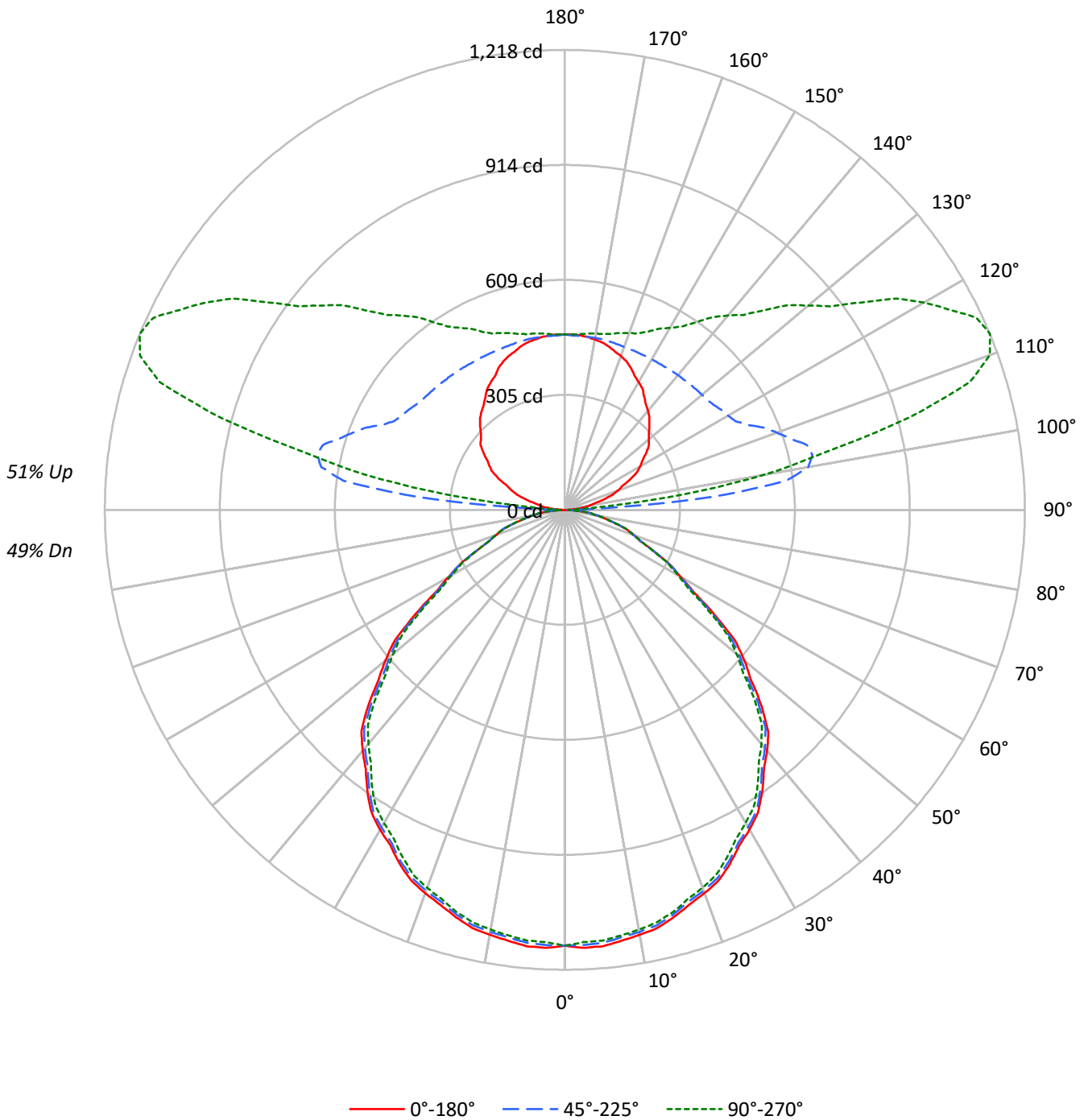
Lumens per Lamp: N/A
Luminaire Lumens: 5909.9 lumens
Efficiency: N/A
Efficacy: 139.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 42.5
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



TEST NUMBER: P564074
CATALOG NUMBER: SQ4-PR1-075U-075D-840-1D-UNV-STD-W-4

Luminous Intensity Polar Plot





TEST NUMBER: P564074

CATALOG NUMBER: SQ4-PR1-075U-075D-840-1D-UNV-STD-W-4

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	94	90	86	90	86	83	80	73	71	68	60	59	57	49	48	47	42
2	89	82	76	71	82	76	71	66	64	60	57	53	51	48	44	42	40	35
3	82	72	65	59	75	67	61	56	57	52	48	47	44	41	39	36	34	30
4	75	64	56	50	69	59	53	47	51	45	41	42	39	36	35	32	30	26
5	69	57	49	43	63	53	46	41	45	40	36	38	34	31	31	28	26	23
6	63	51	43	38	58	48	41	36	41	35	31	35	30	27	29	25	23	20
7	59	46	39	33	54	43	36	31	37	32	28	31	27	24	26	23	21	18
8	54	42	35	29	50	39	32	28	34	28	25	29	25	21	24	21	18	16
9	51	39	31	26	47	36	29	25	31	26	22	26	22	19	22	19	17	14
10	47	35	28	23	44	33	27	22	29	23	20	24	20	17	21	17	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10647	10647	10647
5°	10743	10660	10604
10°	10709	10634	10578
15°	10662	10596	10538
20°	10608	10540	10461
25°	10533	10463	10341
30°	10420	10346	10198
35°	10266	10176	10031
40°	10031	9924	9745
45°	9623	9454	9260
50°	8902	8688	8517
55°	7771	7594	7435
60°	6547	6493	6364
65°	5663	5685	5641
70°	5201	5228	5228
75°	4994	4994	5030
80°	4702	4755	4702
85°	3790	4213	4213



TEST NUMBER: P564074

CATALOG NUMBER: SQ4-PR1-075U-075D-840-1D-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.1	1.8
10°-20°	312.2	5.3
20°-30°	470.9	8.0
30°-40°	561.1	9.5
40°-50°	553.2	9.4
50°-60°	422.8	7.2
60°-70°	261.6	4.4
70°-80°	148.6	2.5
80°-90°	46.4	0.8
90°-100°	218.9	3.7
100°-110°	602.3	10.2
110°-120°	621.7	10.5
120°-130°	498.1	8.4
130°-140°	391.2	6.6
140°-150°	299.8	5.1
150°-160°	215.6	3.6
160°-170°	131.8	2.2
170°-180°	44.4	0.8
0°-30°	892.3	15.1
0°-40°	1453.4	24.6
0°-60°	2429.4	41.1
0°-90°	2886.0	48.8
90°-120°	1442.9	24.4
90°-150°	2632.1	44.5
90°-180°	3024.0	51.2
0°-180°	5909.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1154	1154	1154	1154	1154	
5°	1160	1147	1151	1147	1145	110
15°	1116	1105	1109	1105	1103	315
25°	1035	1022	1028	1017	1016	476
35°	912	901	904	892	891	569
45°	738	728	725	712	710	565
55°	483	475	472	464	462	433
65°	259	258	260	258	258	263
75°	140	140	140	141	141	148
85°	36	38	40	40	40	42
90°	1	4	7	9	9	4
95°	33	120	387	166	106	34
105°	108	166	664	1011	943	113
115°	191	232	532	1060	1203	188
125°	263	299	483	817	957	234
135°	317	352	469	661	748	245
145°	366	392	462	563	606	230
155°	415	428	459	506	520	191
165°	448	454	461	480	483	126
175°	464	465	462	468	467	44
180°	464	464	464	464	464	

TEST NUMBER: P564074

CATALOG NUMBER: SQ4-PR1-075U-075D-840-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1154.0	1154.0	1154.0	1154.0	1154.0
2.5°	1161.1	1151.0	1154.0	1151.5	1146.0
5°	1160.0	1147.3	1151.0	1147.0	1145.0
7.5°	1151.0	1138.6	1142.3	1138.3	1137.1
10°	1143.1	1131.4	1135.1	1131.1	1129.1
12.5°	1134.3	1121.9	1126.4	1121.5	1119.6
15°	1116.2	1104.6	1109.3	1105.2	1103.3
17.5°	1096.3	1083.9	1088.6	1084.0	1081.4
20°	1080.4	1068.8	1073.5	1066.5	1065.5
22.5°	1062.9	1051.3	1056.0	1046.6	1046.4
25°	1034.7	1022.1	1027.8	1016.8	1015.8
27.5°	1001.1	989.5	994.2	983.0	981.8
30°	978.1	966.4	971.1	959.1	957.2
32.5°	951.8	940.9	944.9	932.9	931.7
35°	911.5	900.8	903.5	891.6	890.6
37.5°	865.5	855.8	857.4	844.2	843.3
40°	832.9	823.2	824.0	810.1	809.1
42.5°	797.2	787.4	786.6	772.7	771.7
45°	737.5	727.8	724.6	711.6	709.7
47.5°	669.5	659.8	653.8	643.3	641.9
50°	620.2	610.5	605.3	596.3	593.4
52.5°	567.0	557.2	552.8	544.6	541.7
55°	483.1	475.3	472.1	464.1	462.2
57.5°	403.3	398.1	397.2	389.4	388.6
60°	354.8	351.9	351.9	344.9	344.9
62.5°	313.5	311.4	312.9	308.3	307.5
65°	259.4	257.5	260.4	258.4	258.4
67.5°	216.7	216.7	218.5	217.7	217.7
70°	192.8	192.8	193.8	193.8	193.8
72.5°	171.4	170.6	173.1	173.1	172.4
75°	140.1	140.1	140.1	141.1	141.1
77.5°	109.1	109.3	110.1	109.9	109.1
80°	88.5	89.4	89.5	88.5	88.5
82.5°	67.8	68.8	68.8	68.6	67.8
85°	35.8	37.7	39.8	39.8	39.8
87.5°	10.5	14.2	17.3	17.7	16.9
90°	1.0	3.9	6.9	8.9	8.9
92.5°	13.6	58.2	100.9	38.8	31.8
95°	32.6	119.5	387.1	165.5	105.7
97.5°	53.1	132.5	590.8	455.2	321.2
100°	68.1	140.6	654.8	660.9	539.2
102.5°	82.4	150.2	671.4	819.9	708.3
105°	107.6	165.6	663.7	1010.8	943.2
107.5°	131.7	184.7	625.9	1104.2	1124.3
110°	149.1	197.4	597.5	1127.4	1197.0



TEST NUMBER: P564074

CATALOG NUMBER: SQ4-PR1-075U-075D-840-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	164.9	211.7	569.1	1112.5	1218.3
115°	190.6	232.1	532.3	1060.0	1202.9
117.5°	215.1	253.3	509.0	986.3	1148.0
120°	230.1	266.8	498.7	931.2	1098.2
122.5°	243.5	280.2	491.6	882.8	1041.3
125°	262.7	299.4	482.9	817.0	957.0
127.5°	280.9	315.8	477.2	762.1	884.9
130°	290.4	326.1	474.1	729.4	841.4
132.5°	301.4	337.1	471.7	700.7	801.9
135°	317.0	351.8	469.1	660.7	747.6
137.5°	331.6	363.9	466.9	628.4	700.0
140°	342.7	372.6	466.1	606.9	671.6
142.5°	352.2	379.8	464.6	587.7	643.1
145°	366.4	391.5	462.2	562.9	606.4
147.5°	381.6	403.2	461.0	541.0	575.8
150°	391.1	410.4	460.2	529.0	556.0
152.5°	399.8	417.6	459.4	518.6	541.0
155°	414.8	428.3	459.2	506.0	520.5
157.5°	425.7	436.7	459.2	495.6	505.7
160°	433.6	442.2	459.2	490.0	497.8
162.5°	439.9	447.0	460.0	485.3	491.4
165°	448.4	454.2	461.2	480.0	482.9
167.5°	454.3	458.7	462.2	475.6	476.4
170°	458.2	461.1	462.2	474.1	474.1
172.5°	461.4	462.8	462.2	471.7	470.9
175°	464.2	465.1	462.2	468.1	467.1
177.5°	465.0	465.0	461.8	466.5	465.0
180°	464.2	464.2	464.2	464.2	464.2

(END OF REPORT)