

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: P561895

Luminaire Tested: **SQ4-PR1-075U-075D-92765-1D-UNV-STD-W-4 (3000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561895
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, 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-92765-1D-UNV-STD-W-4 (3000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

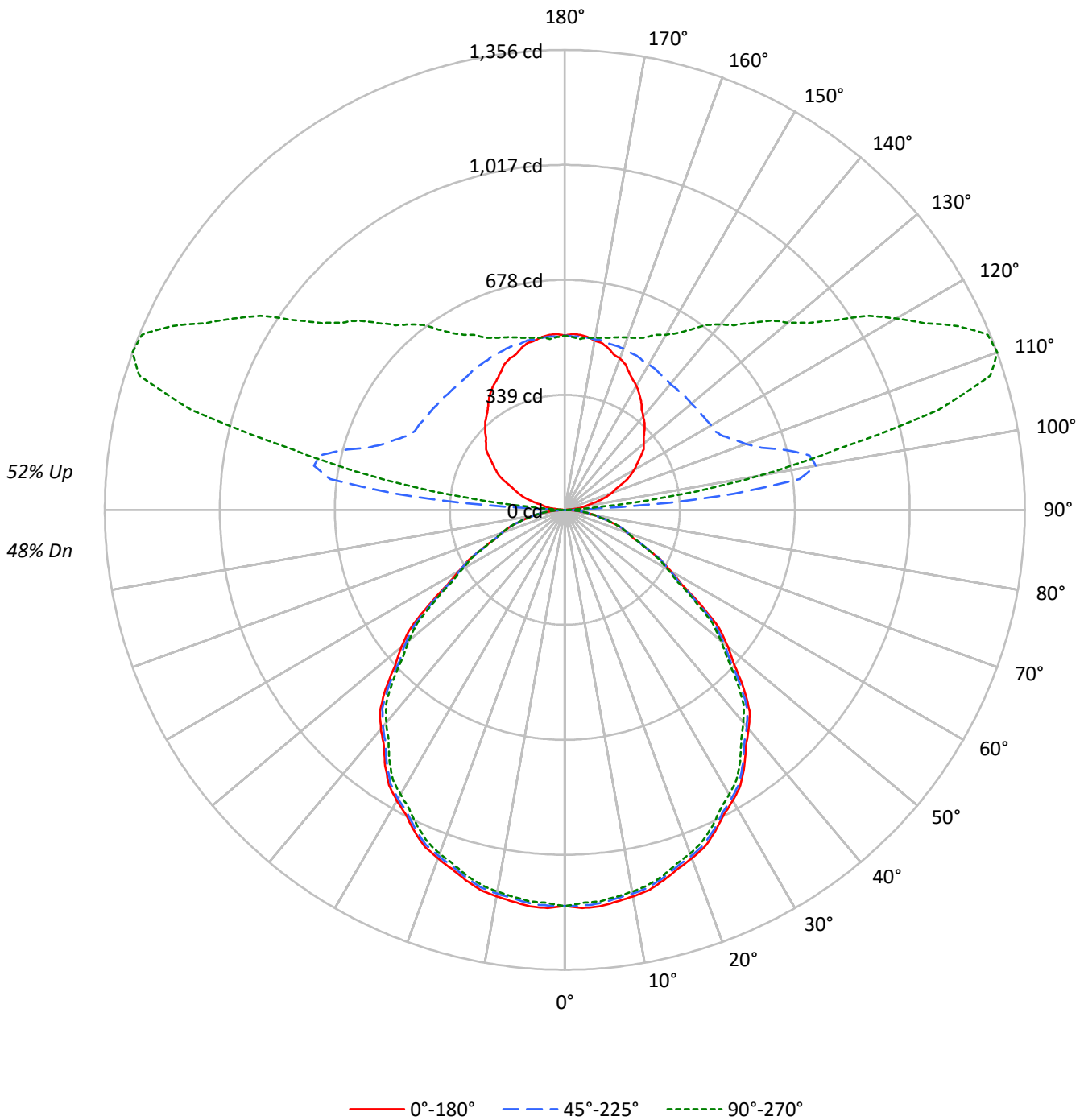
Lumens per Lamp: N/A
Luminaire Lumens: 6110.9 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 55.6
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	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54	48				
1	98	93	90	86	90	86	83	80	72	70	68	60	58	57	48	47	46	41				
2	89	82	76	71	82	76	70	66	64	60	57	53	50	48	43	41	39	35				
3	81	72	65	59	75	67	60	55	56	52	48	47	44	41	38	36	34	30				
4	75	64	56	50	68	59	52	47	50	45	41	42	38	35	34	32	29	26				
5	68	57	49	43	63	53	46	41	45	40	36	38	34	31	31	28	26	22				
6	63	51	43	38	58	48	41	35	41	35	31	34	30	27	28	25	23	20				
7	58	46	38	33	54	43	36	31	37	31	27	31	27	24	26	23	20	18				
8	54	42	34	29	50	39	32	28	34	28	24	28	24	21	24	20	18	16				
9	50	38	31	26	46	36	29	25	31	26	22	26	22	19	22	19	16	14				
10	47	35	28	23	43	33	26	22	28	23	20	24	20	17	20	17	15	13				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10777	10777	10777
5°	10874	10791	10734
10°	10839	10764	10707
15°	10792	10725	10667
20°	10738	10669	10590
25°	10663	10590	10468
30°	10547	10472	10322
35°	10391	10301	10154
40°	10154	10046	9864
45°	9740	9571	9374
50°	9011	8794	8622
55°	7866	7687	7525
60°	6628	6573	6442
65°	5733	5755	5711
70°	5266	5293	5293
75°	5058	5058	5094
80°	4755	4814	4755
85°	3832	4256	4256



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.5	1.8
10°-20°	316.0	5.2
20°-30°	476.7	7.8
30°-40°	568.0	9.3
40°-50°	560.0	9.2
50°-60°	428.0	7.0
60°-70°	264.8	4.3
70°-80°	150.4	2.5
80°-90°	45.7	0.7
90°-100°	234.1	3.8
100°-110°	666.0	10.9
110°-120°	638.1	10.4
120°-130°	505.0	8.3
130°-140°	405.4	6.6
140°-150°	317.4	5.2
150°-160°	232.2	3.8
160°-170°	143.8	2.4
170°-180°	48.8	0.8
0°-30°	903.2	14.8
0°-40°	1471.2	24.1
0°-60°	2459.1	40.2
0°-90°	2920.1	47.8
90°-120°	1538.2	25.2
90°-150°	2766.0	45.3
90°-180°	3191.0	52.2
0°-180°	6110.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1168	1168	1168	1168	1168	
5°	1174	1161	1165	1161	1159	111
15°	1130	1118	1123	1119	1117	319
25°	1047	1035	1040	1029	1028	482
35°	923	912	915	902	902	576
45°	746	737	734	720	718	572
55°	489	481	478	470	468	438
65°	263	261	264	262	262	266
75°	142	142	142	143	143	150
85°	36	38	40	40	40	42
90°	0	0	0	0	0	3
95°	25	101	453	157	97	29
105°	104	157	679	1199	1140	110
115°	192	232	515	1090	1280	189
125°	272	301	491	815	975	243
135°	332	360	485	689	778	256
145°	392	412	489	596	649	245
155°	447	458	501	539	560	207
165°	494	496	507	518	525	139
175°	518	515	513	510	506	49
180°	514	514	514	514	514	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1168.1	1168.1	1168.1	1168.1	1168.1
2.5°	1175.3	1165.1	1168.1	1165.6	1160.1
5°	1174.1	1161.4	1165.1	1161.0	1159.0
7.5°	1165.1	1152.5	1156.2	1152.2	1151.0
10°	1157.0	1145.2	1149.0	1144.9	1142.9
12.5°	1148.2	1135.6	1140.1	1135.3	1133.3
15°	1129.9	1118.1	1122.8	1118.8	1116.8
17.5°	1109.7	1097.2	1101.9	1097.2	1094.7
20°	1093.7	1081.8	1086.6	1079.5	1078.6
22.5°	1075.9	1064.1	1068.9	1059.4	1059.2
25°	1047.4	1034.6	1040.3	1029.2	1028.3
27.5°	1013.4	1001.6	1006.3	995.0	993.8
30°	990.0	978.2	983.0	970.9	968.9
32.5°	963.5	952.4	956.4	944.3	943.1
35°	922.6	911.8	914.6	902.5	901.5
37.5°	876.1	866.3	867.9	854.6	853.6
40°	843.1	833.3	834.1	820.0	819.0
42.5°	806.9	797.1	796.2	782.1	781.1
45°	746.5	736.7	733.5	720.3	718.4
47.5°	677.7	667.9	661.8	651.1	649.8
50°	627.8	618.0	612.7	603.6	600.7
52.5°	573.9	564.1	559.6	551.3	548.3
55°	489.0	481.1	477.9	469.8	467.8
57.5°	408.3	403.0	402.0	394.2	393.4
60°	359.2	356.2	356.2	349.1	349.1
62.5°	317.3	315.2	316.7	312.1	311.3
65°	262.6	260.6	263.6	261.6	261.6
67.5°	219.3	219.3	221.1	220.3	220.3
70°	195.2	195.2	196.2	196.2	196.2
72.5°	173.5	172.7	175.3	175.2	174.5
75°	141.9	141.9	141.9	142.9	142.9
77.5°	110.5	110.7	111.5	111.3	110.5
80°	89.5	90.5	90.6	89.5	89.5
82.5°	68.6	69.6	69.6	69.4	68.6
85°	36.2	38.2	40.2	40.2	40.2
87.5°	10.5	13.6	16.1	16.1	15.3
90°	0.0	0.0	0.0	0.0	0.0
92.5°	7.8	41.4	96.1	28.0	21.1
95°	25.4	100.8	453.1	156.8	96.7
97.5°	46.7	118.1	697.9	499.4	342.2
100°	61.5	128.4	751.0	760.7	585.9
102.5°	77.9	139.4	739.3	973.7	821.1
105°	103.5	157.0	678.7	1198.9	1139.7
107.5°	129.5	177.4	608.0	1262.3	1315.0
110°	147.5	192.3	567.4	1238.0	1356.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	164.6	207.2	540.0	1180.6	1349.4
115°	192.4	232.5	514.7	1090.3	1280.3
117.5°	216.8	254.4	499.6	991.5	1192.8
120°	236.3	267.8	498.0	935.1	1127.9
122.5°	252.0	283.5	494.1	885.5	1064.7
125°	271.5	301.1	491.2	815.2	974.6
127.5°	292.8	320.5	489.7	773.1	904.5
130°	303.7	331.4	487.3	743.8	858.4
132.5°	315.4	342.4	487.3	721.0	826.4
135°	332.0	359.7	485.4	688.6	778.3
137.5°	347.7	374.6	485.2	661.1	738.7
140°	359.4	387.1	484.4	638.4	712.9
142.5°	372.7	395.8	486.7	620.3	687.1
145°	391.6	411.7	489.3	595.9	649.4
147.5°	407.8	427.3	493.6	571.4	617.6
150°	421.9	435.2	495.1	563.2	595.7
152.5°	432.8	446.9	496.7	552.3	582.4
155°	447.3	457.8	501.0	538.6	560.5
157.5°	465.2	471.5	502.0	532.4	548.0
160°	474.6	479.4	505.9	527.6	541.0
162.5°	480.1	485.6	506.6	523.7	534.0
165°	494.1	496.1	506.8	517.8	525.4
167.5°	503.7	502.0	511.3	516.3	519.3
170°	506.8	505.9	509.8	510.8	514.7
172.5°	513.9	510.6	512.1	509.3	512.3
175°	517.6	514.7	512.7	509.7	505.9
177.5°	519.1	514.6	512.1	509.0	509.8
180°	513.7	513.7	513.7	513.7	513.7

(END OF REPORT)