

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: P561641

Luminaire Tested: **SQ4-PC3-100U-075D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561641
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2106-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PC3-100U-075D-92765-1D-UNV-STD-W-4 (6500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

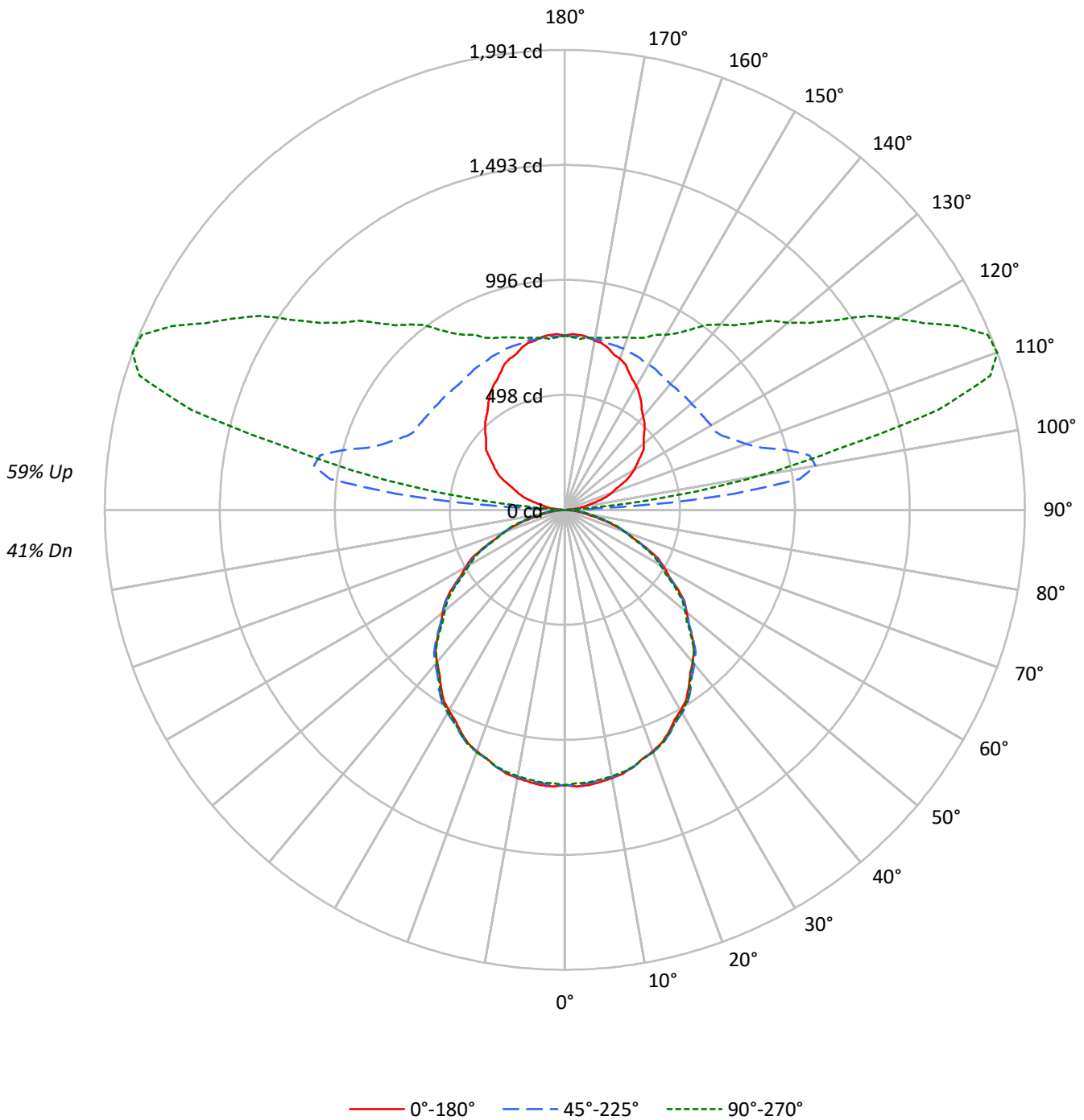
Lumens per Lamp: N/A
Luminaire Lumens: 7936.3 lumens
Efficiency: N/A
Efficacy: 124.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 63.9
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	105	105	105	105	96	96	96	96	78	78	78	62	62	62	48	48	48	41
1	96	92	88	84	87	84	80	77	69	66	64	55	53	52	42	41	40	35
2	87	80	74	69	79	73	68	64	60	56	53	48	46	43	37	36	34	29
3	80	70	63	57	72	64	58	53	53	48	45	43	39	37	33	31	29	25
4	73	62	54	48	66	57	50	45	47	42	38	38	34	31	29	27	25	21
5	67	55	47	41	61	51	44	38	42	37	33	34	30	27	26	24	22	18
6	61	49	41	36	56	45	38	33	38	32	28	31	27	24	24	21	19	16
7	57	45	37	31	51	41	34	29	34	29	25	28	24	21	22	19	17	14
8	52	40	33	27	48	37	30	26	31	26	22	25	21	19	20	17	15	13
9	49	37	29	24	44	34	27	23	28	23	20	23	19	17	18	16	14	11
10	46	34	27	22	42	31	25	20	26	21	18	21	18	15	17	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10996	10996	10996
5°	11079	11007	10966
10°	11052	11001	10970
15°	10994	10994	10983
20°	10922	10954	10954
25°	10818	10897	10863
30°	10687	10816	10769
35°	10528	10690	10614
40°	10354	10500	10394
45°	10166	10237	10079
50°	9900	9900	9742
55°	9585	9461	9320
60°	9123	8940	8796
65°	8431	8263	8191
70°	7383	7443	7413
75°	5939	6570	6609
80°	4224	5568	5627
85°	2572	4668	4668



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.8	1.4
10°-20°	323.7	4.1
20°-30°	490.2	6.2
30°-40°	587.7	7.4
40°-50°	599.2	7.6
50°-60°	523.1	6.6
60°-70°	374.5	4.7
70°-80°	192.9	2.4
80°-90°	48.8	0.6
90°-100°	343.6	4.3
100°-110°	977.6	12.3
110°-120°	936.6	11.8
120°-130°	741.3	9.3
130°-140°	595.0	7.5
140°-150°	465.8	5.9
150°-160°	340.8	4.3
160°-170°	211.1	2.7
170°-180°	71.6	0.9
0°-30°	926.7	11.7
0°-40°	1514.3	19.1
0°-60°	2636.6	33.2
0°-90°	3252.8	41.0
90°-120°	2257.8	28.4
90°-150°	4059.9	51.2
90°-180°	4684.0	59.0
0°-180°	7936.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1192	1192	1192	1192	1192	
5°	1196	1184	1188	1185	1184	114
15°	1151	1141	1151	1151	1150	325
25°	1063	1055	1070	1067	1067	489
35°	935	932	949	942	942	585
45°	779	777	785	775	772	600
55°	596	588	588	579	579	531
65°	386	378	378	375	375	382
75°	167	174	184	185	185	180
85°	24	37	44	45	44	33
90°	0	0	0	0	0	3
95°	37	148	665	230	142	43
105°	152	230	996	1760	1673	161
115°	282	341	755	1600	1879	278
125°	398	442	721	1196	1431	357
135°	487	528	712	1011	1142	376
145°	575	604	718	875	953	359
155°	656	672	735	791	823	303
165°	725	728	744	760	771	204
175°	760	756	753	748	742	72
180°	754	754	754	754	754	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1191.8	1191.8	1191.8	1191.8	1191.8
2.5°	1198.9	1188.5	1191.8	1189.1	1184.8
5°	1196.2	1184.4	1188.5	1185.2	1184.1
7.5°	1187.6	1175.8	1181.2	1179.0	1177.9
10°	1179.7	1167.8	1174.2	1171.9	1170.9
12.5°	1169.1	1158.1	1165.3	1163.1	1162.9
15°	1151.0	1141.3	1151.0	1151.0	1149.9
17.5°	1128.3	1119.4	1129.8	1130.5	1129.8
20°	1112.4	1102.7	1115.7	1114.6	1115.7
22.5°	1093.0	1085.0	1098.9	1096.1	1097.1
25°	1062.7	1055.2	1070.4	1067.1	1067.1
27.5°	1027.0	1021.6	1038.2	1034.7	1034.7
30°	1003.1	997.7	1015.3	1010.8	1010.8
32.5°	976.6	973.0	989.7	984.4	984.4
35°	934.7	932.5	949.1	942.4	942.4
37.5°	891.4	889.5	904.5	896.5	893.9
40°	859.7	858.6	871.8	863.0	863.0
42.5°	827.9	826.8	838.3	827.7	827.7
45°	779.1	776.9	784.6	774.6	772.5
47.5°	725.9	723.8	728.6	717.7	716.6
50°	689.7	687.6	689.7	679.8	678.7
52.5°	652.6	648.8	649.1	639.2	639.0
55°	595.9	588.4	588.2	579.4	579.4
57.5°	535.9	526.0	526.8	519.3	518.2
60°	494.4	483.6	484.5	477.8	476.7
62.5°	453.8	441.3	443.8	436.3	436.1
65°	386.2	377.6	378.5	375.2	375.2
67.5°	321.4	313.4	319.1	316.5	316.3
70°	273.7	268.3	275.9	275.9	274.8
72.5°	229.5	229.3	238.8	238.8	239.5
75°	166.6	174.2	184.3	185.4	185.4
77.5°	111.2	124.6	135.7	136.2	136.0
80°	79.5	94.6	104.8	107.0	105.9
82.5°	53.9	69.8	78.4	80.5	79.5
85°	24.3	37.2	44.1	45.2	44.1
87.5°	7.1	14.8	17.7	17.6	15.9
90°	0.0	0.0	0.0	0.0	0.0
92.5°	11.5	60.8	141.1	41.1	31.0
95°	37.3	148.0	665.1	230.2	141.9
97.5°	68.5	173.4	1024.3	733.0	502.3
100°	90.3	188.4	1102.3	1116.6	860.1
102.5°	114.4	204.7	1085.1	1429.2	1205.2
105°	151.9	230.4	996.2	1759.7	1672.8
107.5°	190.1	260.4	892.5	1852.9	1930.3
110°	216.4	282.3	832.8	1817.3	1991.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	241.7	304.2	792.7	1732.9	1980.7
115°	282.4	341.3	755.4	1600.3	1879.2
117.5°	318.2	373.4	733.3	1455.4	1750.8
120°	346.9	393.1	731.1	1372.5	1655.6
122.5°	369.8	416.1	725.3	1299.8	1562.7
125°	398.5	441.9	721.0	1196.5	1430.6
127.5°	429.7	470.4	718.7	1134.8	1327.7
130°	445.8	486.4	715.3	1091.8	1260.0
132.5°	463.0	502.5	715.3	1058.2	1213.0
135°	487.4	528.0	712.4	1010.7	1142.5
137.5°	510.3	549.8	712.1	970.4	1084.3
140°	527.5	568.2	711.0	937.1	1046.4
142.5°	547.0	580.9	714.4	910.5	1008.6
145°	574.8	604.2	718.2	874.7	953.2
147.5°	598.6	627.2	724.5	838.7	906.5
150°	619.2	638.9	726.8	826.7	874.4
152.5°	635.3	656.0	729.0	810.6	854.9
155°	656.5	671.9	735.4	790.6	822.8
157.5°	682.9	692.1	736.8	781.5	804.4
160°	696.7	703.7	742.5	774.5	794.1
162.5°	704.7	712.8	743.7	768.7	783.8
165°	725.3	728.1	744.0	760.0	771.2
167.5°	739.4	736.8	750.6	757.8	762.3
170°	744.0	742.6	748.3	749.8	755.4
172.5°	754.3	749.5	751.7	747.5	752.0
175°	759.7	755.5	752.6	748.1	742.5
177.5°	762.0	755.3	751.7	747.1	748.3
180°	754.0	754.0	754.0	754.0	754.0

(END OF REPORT)