

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: P561634

Luminaire Tested: **SQ4-PC3-100U-075D-92765-1D-UNV-STD-W-4 (2700K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561634
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 (2700K)
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 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

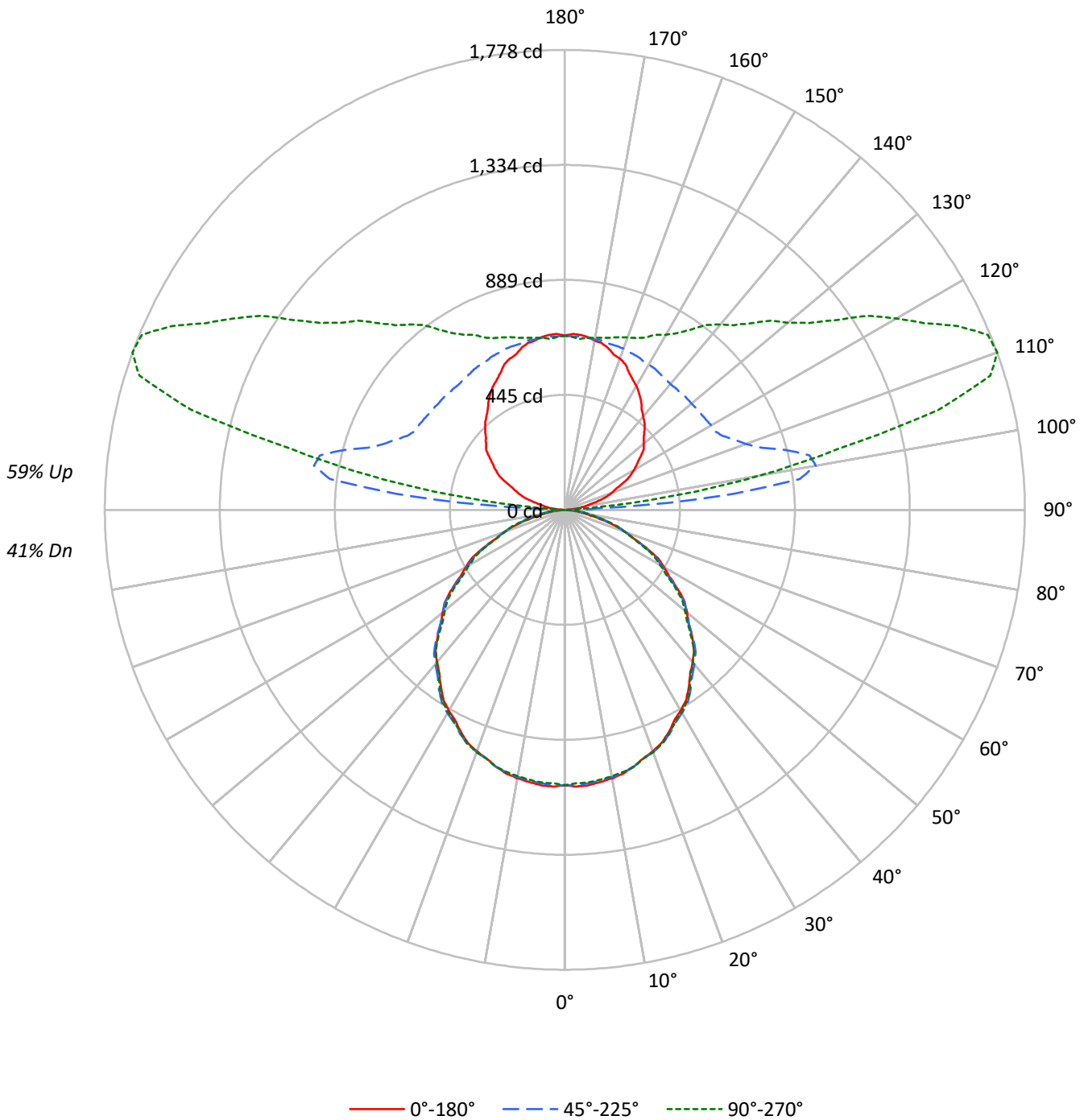
Lumens per Lamp: N/A
Luminaire Lumens: 7088.7 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 64.1
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				
RC	80					70					50					30				
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°	9821	9821	9821
5°	9896	9832	9795
10°	9872	9826	9798
15°	9820	9820	9811
20°	9755	9784	9784
25°	9663	9733	9704
30°	9546	9661	9619
35°	9404	9548	9481
40°	9249	9379	9283
45°	9080	9144	9003
50°	8843	8843	8701
55°	8562	8451	8324
60°	8149	7984	7857
65°	7532	7381	7316
70°	6596	6647	6620
75°	5304	5868	5903
80°	3772	4973	5026
85°	2297	4171	4171



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.7	1.4
10°-20°	289.1	4.1
20°-30°	437.8	6.2
30°-40°	524.9	7.4
40°-50°	535.2	7.6
50°-60°	467.2	6.6
60°-70°	334.5	4.7
70°-80°	172.3	2.4
80°-90°	43.6	0.6
90°-100°	306.9	4.3
100°-110°	873.2	12.3
110°-120°	836.6	11.8
120°-130°	662.1	9.3
130°-140°	531.5	7.5
140°-150°	416.1	5.9
150°-160°	304.4	4.3
160°-170°	188.6	2.7
170°-180°	64.0	0.9
0°-30°	827.7	11.7
0°-40°	1352.6	19.1
0°-60°	2355.1	33.2
0°-90°	2905.4	41.0
90°-120°	2016.7	28.4
90°-150°	3626.3	51.2
90°-180°	4183.0	59.0
0°-180°	7088.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1064	1064	1064	1064	1064	
5°	1068	1058	1062	1059	1058	101
15°	1028	1019	1028	1028	1027	290
25°	949	942	956	953	953	437
35°	835	833	848	842	842	522
45°	696	694	701	692	690	536
55°	532	526	525	518	518	475
65°	345	337	338	335	335	341
75°	149	156	165	166	166	161
85°	22	33	39	40	39	29
90°	0	0	0	0	0	2
95°	33	132	594	206	127	38
105°	136	206	890	1572	1494	144
115°	252	305	675	1429	1678	248
125°	356	395	644	1069	1278	319
135°	435	472	636	903	1020	336
145°	513	540	642	781	851	321
155°	586	600	657	706	735	271
165°	648	650	664	679	689	182
175°	679	675	672	668	663	64
180°	674	674	674	674	674	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1064.5	1064.5	1064.5	1064.5	1064.5
2.5°	1070.9	1061.6	1064.5	1062.1	1058.2
5°	1068.5	1057.9	1061.6	1058.6	1057.6
7.5°	1060.8	1050.2	1055.1	1053.1	1052.1
10°	1053.7	1043.1	1048.8	1046.8	1045.8
12.5°	1044.2	1034.4	1040.9	1038.9	1038.7
15°	1028.1	1019.4	1028.1	1028.1	1027.1
17.5°	1007.8	999.9	1009.2	1009.7	1009.2
20°	993.6	984.9	996.5	995.6	996.5
22.5°	976.2	969.1	981.6	979.0	980.0
25°	949.2	942.5	956.1	953.2	953.2
27.5°	917.3	912.5	927.3	924.2	924.2
30°	896.0	891.2	906.8	902.9	902.9
32.5°	872.3	869.1	884.0	879.2	879.2
35°	834.9	833.0	847.7	841.8	841.8
37.5°	796.2	794.5	807.9	800.7	798.4
40°	767.9	766.9	778.7	770.8	770.8
42.5°	739.5	738.5	748.7	739.3	739.3
45°	695.9	694.0	700.8	691.9	690.0
47.5°	648.4	646.5	650.8	641.1	640.1
50°	616.1	614.1	616.1	607.2	606.2
52.5°	582.9	579.5	579.8	570.9	570.7
55°	532.3	525.5	525.4	517.5	517.5
57.5°	478.7	469.8	470.6	463.8	462.9
60°	441.6	432.0	432.7	426.8	425.8
62.5°	405.3	394.1	396.4	389.7	389.5
65°	345.0	337.3	338.1	335.1	335.1
67.5°	287.0	279.9	285.1	282.7	282.5
70°	244.5	239.6	246.4	246.4	245.4
72.5°	205.0	204.8	213.3	213.3	213.9
75°	148.8	155.6	164.6	165.6	165.6
77.5°	99.4	111.3	121.2	121.6	121.4
80°	71.0	84.5	93.6	95.6	94.6
82.5°	48.1	62.4	70.0	71.9	71.0
85°	21.7	33.3	39.4	40.4	39.4
87.5°	6.3	13.2	15.8	15.7	14.2
90°	0.0	0.0	0.0	0.0	0.0
92.5°	10.2	54.3	126.0	36.7	27.7
95°	33.3	132.2	594.1	205.6	126.8
97.5°	61.2	154.8	914.9	654.7	448.6
100°	80.7	168.3	984.6	997.3	768.2
102.5°	102.2	182.8	969.2	1276.6	1076.5
105°	135.7	205.8	889.8	1571.8	1494.2
107.5°	169.8	232.6	797.1	1655.0	1724.1
110°	193.3	252.2	743.9	1623.2	1778.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	215.9	271.7	708.0	1547.9	1769.2
115°	252.2	304.8	674.7	1429.4	1678.5
117.5°	284.2	333.6	655.0	1299.9	1563.8
120°	309.8	351.2	653.0	1225.9	1478.8
122.5°	330.3	371.6	647.9	1161.0	1395.8
125°	355.9	394.7	644.0	1068.7	1277.8
127.5°	383.8	420.2	642.0	1013.6	1185.9
130°	398.2	434.5	638.9	975.2	1125.4
132.5°	413.6	448.9	638.9	945.2	1083.4
135°	435.3	471.6	636.3	902.8	1020.4
137.5°	455.8	491.1	636.1	866.8	968.5
140°	471.2	507.5	635.1	837.0	934.7
142.5°	488.6	518.9	638.1	813.2	900.9
145°	513.4	539.7	641.5	781.3	851.4
147.5°	534.7	560.2	647.1	749.1	809.7
150°	553.1	570.6	649.1	738.5	781.0
152.5°	567.5	586.0	651.2	724.0	763.6
155°	586.4	600.2	656.8	706.1	734.9
157.5°	610.0	618.2	658.1	698.0	718.5
160°	622.3	628.5	663.2	691.8	709.3
162.5°	629.4	636.7	664.2	686.6	700.1
165°	647.9	650.4	664.5	678.8	688.8
167.5°	660.4	658.2	670.4	676.9	680.9
170°	664.5	663.3	668.3	669.7	674.7
172.5°	673.7	669.5	671.4	667.7	671.7
175°	678.6	674.8	672.2	668.2	663.2
177.5°	680.6	674.6	671.4	667.3	668.3
180°	673.5	673.5	673.5	673.5	673.5

(END OF REPORT)