

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: P563319

Luminaire Tested: **SQ4-PP3-050U-075D-940-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563319
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-050U-075D-940-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

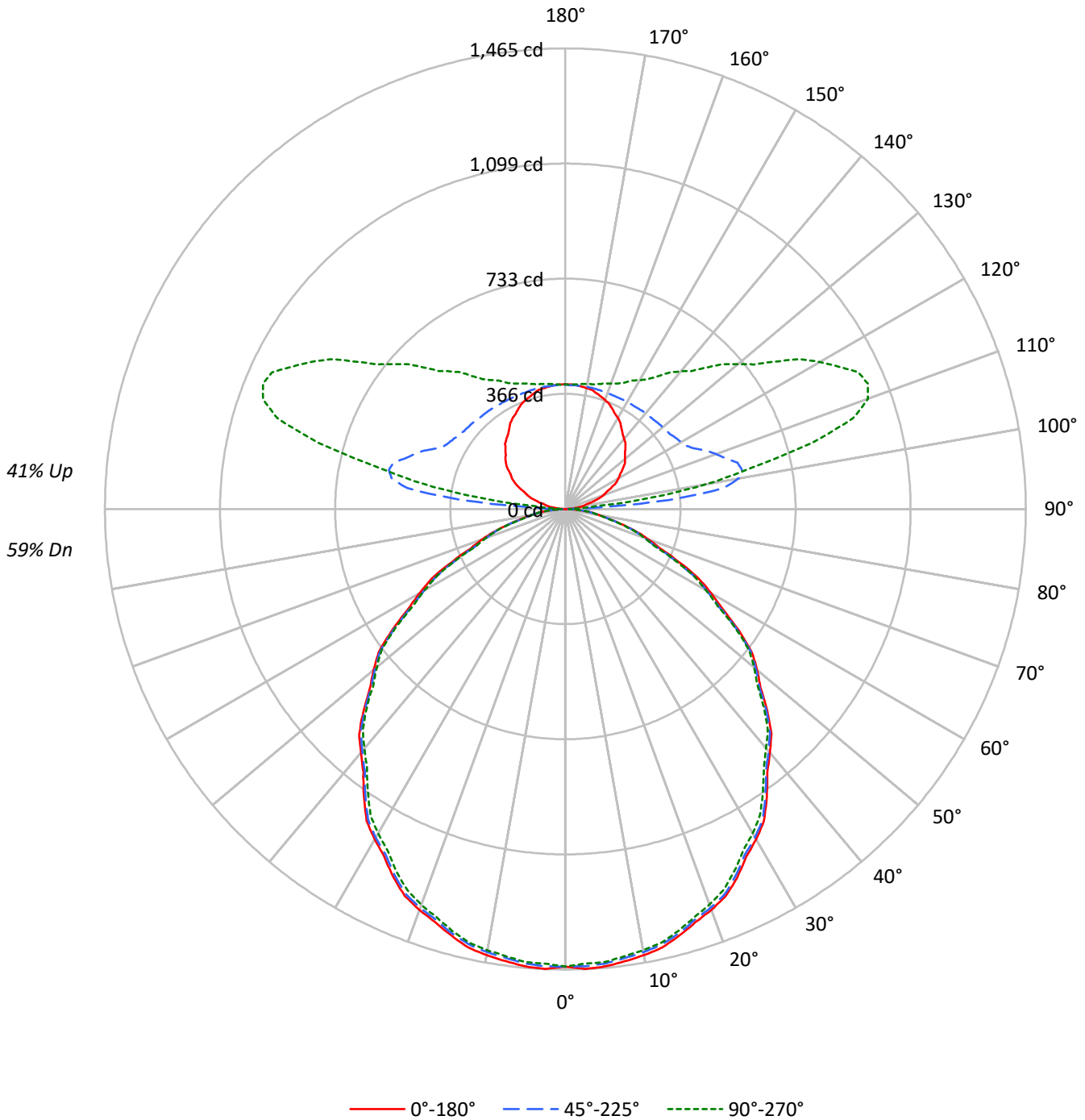
Lumens per Lamp: N/A
Luminaire Lumens: 6310.1 lumens
Efficiency: N/A
Efficacy: 107.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 58.5
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



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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	109	109	109	109	102	102	102	102	88	88	88	76	76	76	64	64	64	59
1	100	96	92	88	93	90	86	83	78	75	73	67	65	64	57	56	55	50
2	91	84	78	73	85	79	73	69	69	64	61	59	56	54	51	49	47	42
3	83	74	67	61	78	69	63	58	61	56	51	53	49	46	45	42	40	36
4	76	66	58	52	71	62	54	49	54	48	44	47	43	39	40	37	34	31
5	70	58	50	44	65	55	48	42	48	43	38	42	38	34	36	33	30	27
6	65	53	44	38	60	49	42	37	44	38	33	38	33	30	33	29	27	24
7	60	47	39	34	56	45	37	32	40	34	29	35	30	26	30	26	24	21
8	56	43	35	30	52	41	34	29	36	30	26	32	27	24	28	24	21	19
9	52	39	32	27	48	37	30	26	33	27	23	29	25	21	26	22	19	17
10	48	36	29	24	45	34	28	23	31	25	21	27	22	19	24	20	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8953	8953	8953
5°	9019	8964	8932
10°	9004	8940	8900
15°	8944	8895	8847
20°	8885	8835	8768
25°	8779	8719	8632
30°	8617	8572	8463
35°	8392	8334	8229
40°	8123	8072	7980
45°	7901	7846	7768
50°	7618	7569	7495
55°	7223	7128	7073
60°	6575	6387	6356
65°	5793	5551	5533
70°	5001	4794	4794
75°	4306	4244	4185
80°	3797	3840	3751
85°	2971	3239	3239



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.6	2.2
10°-20°	393.0	6.2
20°-30°	588.7	9.3
30°-40°	690.5	10.9
40°-50°	692.7	11.0
50°-60°	590.9	9.4
60°-70°	385.4	6.1
70°-80°	193.3	3.1
80°-90°	55.0	0.9
90°-100°	189.9	3.0
100°-110°	515.9	8.2
110°-120°	530.4	8.4
120°-130°	424.1	6.7
130°-140°	333.2	5.3
140°-150°	255.5	4.0
150°-160°	183.7	2.9
160°-170°	112.4	1.8
170°-180°	37.9	0.6
0°-30°	1119.3	17.7
0°-40°	1809.9	28.7
0°-60°	3093.4	49.0
0°-90°	3727.1	59.1
90°-120°	1236.2	19.6
90°-150°	2249.0	35.6
90°-180°	2583.0	40.9
0°-180°	6310.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1456	1456	1456	1456	1456	
5°	1461	1447	1452	1447	1447	139
15°	1405	1391	1397	1392	1389	396
25°	1294	1279	1285	1273	1272	595
35°	1118	1106	1110	1097	1096	698
45°	908	902	902	893	893	699
55°	674	671	665	661	660	599
65°	398	391	381	379	380	397
75°	181	181	179	177	176	197
85°	42	46	46	46	46	49
90°	1	5	9	11	11	3
95°	28	104	331	144	97	30
105°	92	143	567	864	813	97
115°	163	198	454	903	1029	161
125°	224	255	411	692	817	200
135°	270	300	399	564	636	209
145°	312	334	394	479	515	196
155°	352	365	392	430	443	162
165°	382	387	393	410	411	108
175°	396	397	394	399	398	38
180°	396	396	396	396	396	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1455.6	1455.6	1455.6	1455.6	1455.6
2.5°	1464.8	1452.8	1455.6	1453.5	1447.5
5°	1460.7	1447.0	1451.8	1446.7	1446.7
7.5°	1450.8	1435.8	1440.6	1435.5	1435.2
10°	1441.6	1426.6	1431.4	1426.3	1425.0
12.5°	1428.3	1413.4	1419.1	1413.0	1412.8
15°	1404.6	1390.9	1396.9	1391.8	1389.3
17.5°	1377.8	1362.8	1370.2	1363.0	1362.0
20°	1357.4	1342.4	1349.7	1339.5	1339.5
22.5°	1332.9	1317.9	1326.3	1313.0	1313.0
25°	1293.6	1278.6	1284.7	1273.2	1271.9
27.5°	1246.9	1232.2	1238.5	1225.5	1225.2
30°	1213.2	1199.5	1206.9	1192.8	1191.6
32.5°	1176.5	1163.8	1169.1	1155.0	1153.8
35°	1117.6	1106.3	1109.9	1097.1	1095.9
37.5°	1055.6	1044.1	1048.2	1037.2	1036.7
40°	1011.7	1004.2	1005.3	996.3	993.8
42.5°	970.8	962.4	963.4	954.5	954.0
45°	908.3	902.1	902.0	893.0	893.0
47.5°	842.0	837.3	835.9	828.5	828.2
50°	796.1	792.3	791.0	784.6	783.3
52.5°	748.1	746.4	742.0	736.6	736.4
55°	673.6	671.1	664.7	660.8	659.6
57.5°	592.7	587.7	580.5	574.9	575.9
60°	534.5	529.6	519.2	516.7	516.7
62.5°	478.4	472.4	462.1	458.6	460.5
65°	398.0	390.6	381.4	378.9	380.2
67.5°	325.1	318.3	308.5	308.5	307.5
70°	278.1	274.4	266.6	266.6	266.6
72.5°	236.3	234.5	228.9	228.8	227.8
75°	181.2	181.2	178.6	177.3	176.1
77.5°	135.7	136.2	135.0	133.6	131.4
80°	107.2	109.7	108.4	107.1	105.9
82.5°	80.6	83.1	82.9	80.6	80.4
85°	42.1	45.8	45.9	45.9	45.9
87.5°	11.5	16.2	18.1	18.6	19.6
90°	1.3	5.0	8.9	11.4	11.4
92.5°	11.4	52.0	90.3	38.8	32.8
95°	28.0	103.9	330.7	143.9	96.7
97.5°	46.3	114.7	507.0	394.5	277.0
100°	58.5	121.9	561.0	568.6	459.2
102.5°	70.7	129.2	575.2	703.3	606.8
105°	91.6	142.6	567.3	863.8	812.8
107.5°	113.2	158.2	534.5	946.7	960.9
110°	128.5	169.5	510.1	963.0	1024.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	141.7	180.8	485.7	949.5	1041.3
115°	162.8	197.6	454.1	903.4	1029.1
117.5°	182.7	216.0	434.0	838.2	979.7
120°	195.9	228.2	424.9	794.4	934.9
122.5°	207.1	239.4	418.7	750.5	886.1
125°	223.9	255.0	410.9	692.3	816.6
127.5°	238.9	269.7	406.5	648.1	754.8
130°	248.0	277.9	404.5	620.4	716.1
132.5°	257.2	287.1	402.5	596.7	681.5
135°	269.7	299.5	399.4	563.9	636.0
137.5°	283.2	310.3	397.9	534.9	595.6
140°	291.3	317.4	396.9	516.4	571.1
142.5°	299.4	323.6	395.9	502.0	547.7
145°	311.6	334.0	394.3	479.1	515.2
147.5°	325.4	344.5	393.1	461.1	489.5
150°	334.5	350.7	393.1	450.8	473.2
152.5°	341.7	355.8	392.0	441.6	460.0
155°	352.3	364.8	391.8	430.2	442.7
157.5°	362.8	372.5	391.8	422.5	432.0
160°	368.9	377.6	391.8	417.4	424.9
162.5°	375.0	381.7	392.8	413.3	418.7
165°	381.6	386.6	393.1	409.6	410.9
167.5°	388.5	391.0	394.3	405.3	406.3
170°	390.5	393.0	394.3	403.2	403.2
172.5°	392.5	394.0	394.3	401.2	401.2
175°	395.6	396.8	394.3	399.4	398.1
177.5°	396.6	396.6	393.6	397.6	395.6
180°	395.6	395.6	395.6	395.6	395.6

(END OF REPORT)