

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: P562666

Luminaire Tested: **SQ4-PC3-050U-100D-935-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562666
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-PC3-050U-100D-935-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

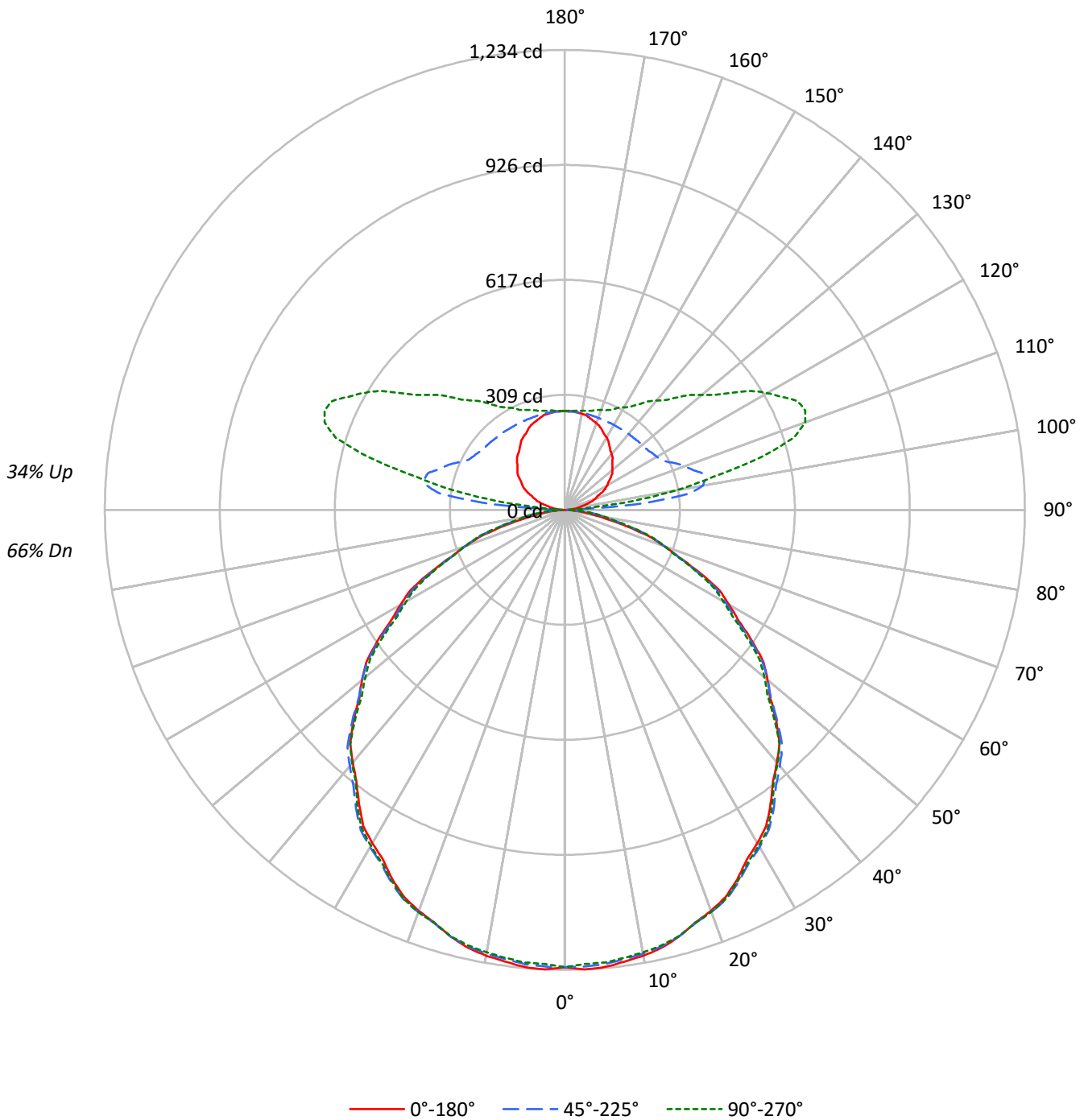
Lumens per Lamp: N/A
Luminaire Lumens: 5080.5 lumens
Efficiency: N/A
Efficacy: 112.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 45.1
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				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	111	111	111	111	104	104	104	104	92	92	92	81	81	81	71	71	71	66
1	101	97	93	90	95	91	88	85	81	78	76	72	70	68	63	61	60	56
2	92	85	78	73	87	80	74	70	71	67	63	63	60	57	55	53	51	47
3	84	75	67	61	79	70	64	58	63	57	53	56	51	48	49	46	43	39
4	77	66	58	52	72	62	55	49	56	50	45	49	45	41	44	40	37	34
5	71	59	50	44	66	56	48	42	50	44	39	44	39	36	39	35	32	29
6	65	53	44	38	61	50	43	37	45	39	34	40	35	31	36	32	28	26
7	60	48	40	34	57	45	38	33	41	35	30	37	31	28	32	28	25	23
8	56	43	35	30	53	41	34	29	37	31	27	33	28	25	30	26	22	20
9	52	40	32	27	49	38	31	26	34	28	24	31	26	22	28	23	20	18
10	49	36	29	24	46	35	28	23	32	26	22	28	23	20	26	21	18	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11321	11321	11321
5°	11405	11332	11290
10°	11378	11325	11293
15°	11319	11319	11307
20°	11244	11277	11277
25°	11138	11218	11184
30°	11002	11135	11087
35°	10838	11004	10927
40°	10659	10809	10700
45°	10466	10540	10377
50°	10192	10192	10029
55°	9868	9740	9595
60°	9392	9202	9056
65°	8680	8508	8433
70°	7602	7661	7631
75°	6117	6762	6805
80°	4346	5733	5797
85°	2646	4806	4806



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.1	2.3
10°-20°	333.2	6.6
20°-30°	504.6	9.9
30°-40°	605.0	11.9
40°-50°	616.9	12.1
50°-60°	538.5	10.6
60°-70°	385.5	7.6
70°-80°	198.6	3.9
80°-90°	51.2	1.0
90°-100°	127.2	2.5
100°-110°	345.7	6.8
110°-120°	355.4	7.0
120°-130°	284.2	5.6
130°-140°	223.3	4.4
140°-150°	171.2	3.4
150°-160°	123.1	2.4
160°-170°	75.3	1.5
170°-180°	25.4	0.5
0°-30°	954.0	18.8
0°-40°	1559.0	30.7
0°-60°	2714.4	53.4
0°-90°	3349.7	65.9
90°-120°	828.3	16.3
90°-150°	1507.0	29.7
90°-180°	1731.0	34.1
0°-180°	5080.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1227	1227	1227	1227	1227	
5°	1232	1219	1224	1220	1219	117
15°	1185	1175	1185	1185	1184	334
25°	1094	1086	1102	1099	1099	504
35°	962	960	977	970	970	602
45°	802	800	808	798	795	617
55°	614	606	606	596	596	547
65°	398	389	390	386	386	393
75°	172	179	190	191	191	185
85°	25	38	45	47	45	34
90°	1	3	6	8	8	2
95°	19	70	222	96	65	20
105°	61	96	380	579	545	65
115°	109	132	304	605	690	108
125°	150	171	275	464	547	134
135°	181	201	268	378	426	140
145°	209	224	264	321	345	131
155°	236	244	262	288	297	109
165°	256	259	263	274	275	72
175°	265	266	264	268	267	25
180°	265	265	265	265	265	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1227.0	1227.0	1227.0	1227.0	1227.0
2.5°	1234.3	1223.6	1227.0	1224.2	1219.7
5°	1231.5	1219.3	1223.6	1220.1	1219.0
7.5°	1222.7	1210.5	1216.1	1213.8	1212.7
10°	1214.5	1202.3	1208.8	1206.5	1205.4
12.5°	1203.6	1192.3	1199.7	1197.4	1197.2
15°	1185.0	1175.0	1185.0	1184.9	1183.8
17.5°	1161.5	1152.4	1163.1	1163.8	1163.1
20°	1145.2	1135.2	1148.6	1147.5	1148.6
22.5°	1125.2	1117.0	1131.3	1128.4	1129.5
25°	1094.1	1086.3	1102.0	1098.6	1098.6
27.5°	1057.3	1051.7	1068.8	1065.2	1065.2
30°	1032.7	1027.2	1045.2	1040.7	1040.7
32.5°	1005.4	1001.7	1018.9	1013.4	1013.4
35°	962.3	960.1	977.0	970.2	970.2
37.5°	917.7	915.7	931.1	922.9	920.2
40°	885.0	883.9	897.5	888.4	888.4
42.5°	852.3	851.2	863.0	852.1	852.1
45°	802.1	799.9	807.8	797.5	795.3
47.5°	747.3	745.1	750.1	738.9	737.8
50°	710.1	707.8	710.1	699.8	698.7
52.5°	671.9	667.9	668.3	658.0	657.8
55°	613.5	605.7	605.5	596.5	596.5
57.5°	551.7	541.5	542.4	534.6	533.5
60°	509.0	497.9	498.7	491.9	490.8
62.5°	467.2	454.3	456.9	449.2	449.0
65°	397.6	388.7	389.7	386.3	386.3
67.5°	330.8	322.6	328.6	325.8	325.6
70°	281.8	276.2	284.0	284.0	282.9
72.5°	236.3	236.1	245.9	245.9	246.5
75°	171.6	179.3	189.7	190.9	190.9
77.5°	114.5	128.3	139.7	140.2	140.0
80°	81.8	97.4	107.9	110.2	109.1
82.5°	55.4	71.9	80.7	82.9	81.8
85°	25.0	38.3	45.4	46.6	45.4
87.5°	7.4	15.9	19.4	19.7	17.9
90°	0.9	3.4	6.0	7.7	7.7
92.5°	7.7	34.8	60.5	26.0	22.0
95°	18.8	69.6	221.6	96.4	64.8
97.5°	31.0	76.9	339.7	264.3	185.6
100°	39.2	81.7	375.9	381.0	307.7
102.5°	47.4	86.6	385.4	471.2	406.6
105°	61.4	95.5	380.1	578.8	544.6
107.5°	75.9	106.0	358.2	634.4	643.9
110°	86.1	113.6	341.8	645.3	686.1

TEST NUMBER: P562666

CATALOG NUMBER: SQ4-PC3-050U-100D-935-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	95.0	121.1	325.4	636.2	697.7
115°	109.1	132.4	304.3	605.4	689.5
117.5°	122.4	144.7	290.8	561.6	656.5
120°	131.3	152.9	284.7	532.3	626.5
122.5°	138.8	160.4	280.6	502.9	593.7
125°	150.0	170.8	275.3	463.9	547.2
127.5°	160.1	180.7	272.4	434.3	505.8
130°	166.2	186.2	271.0	415.7	479.9
132.5°	172.3	192.3	269.7	399.8	456.7
135°	180.7	200.7	267.6	377.8	426.2
137.5°	189.7	207.9	266.6	358.4	399.1
140°	195.2	212.7	265.9	346.0	382.7
142.5°	200.6	216.8	265.2	336.3	367.0
145°	208.8	223.8	264.2	321.0	345.2
147.5°	218.0	230.9	263.4	309.0	328.0
150°	224.2	235.0	263.4	302.1	317.1
152.5°	228.9	238.4	262.7	295.9	308.2
155°	236.1	244.4	262.5	288.3	296.6
157.5°	243.1	249.6	262.5	283.1	289.5
160°	247.2	253.0	262.5	279.7	284.7
162.5°	251.3	255.8	263.2	276.9	280.6
165°	255.7	259.0	263.4	274.5	275.3
167.5°	260.3	262.0	264.2	271.6	272.2
170°	261.7	263.3	264.2	270.2	270.2
172.5°	263.0	264.0	264.2	268.8	268.8
175°	265.1	265.9	264.2	267.6	266.8
177.5°	265.8	265.8	263.7	266.4	265.1
180°	265.1	265.1	265.1	265.1	265.1

(END OF REPORT)