

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: P562507

Luminaire Tested: **SQ4-PC3-025U-050D-830-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562507
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-PC3-025U-050D-830-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

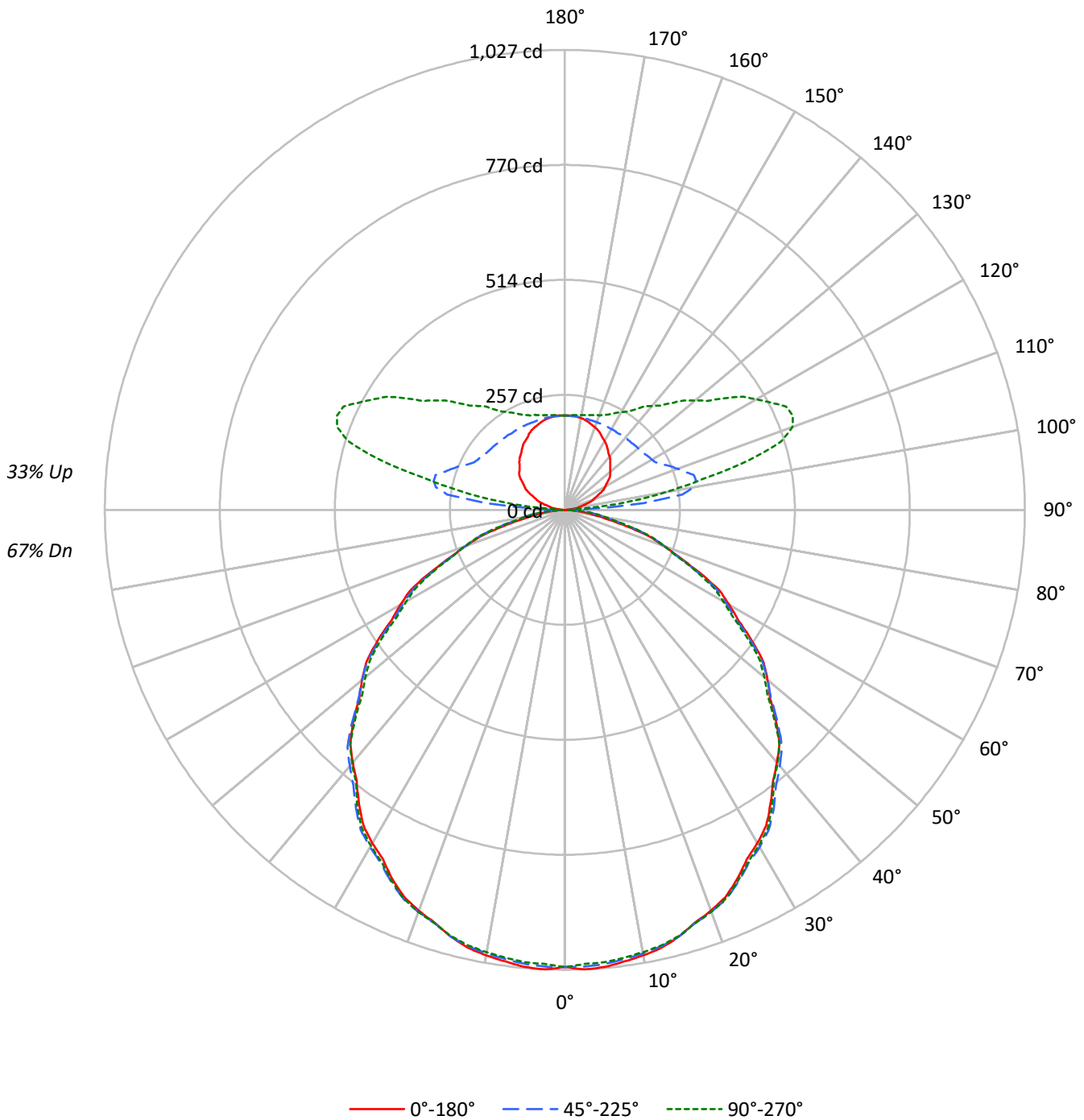
Lumens per Lamp: N/A
Luminaire Lumens: 4155.0 lumens
Efficiency: N/A
Efficacy: 119.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 34.9
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	50	30	10	0	
RCR																						
0	111	111	111	111	105	105	105	105	93	93	93	82	82	82	72	72	72	67				
1	102	97	93	90	96	92	88	85	82	79	77	72	70	68	64	62	61	57				
2	93	85	79	73	87	80	75	70	72	67	63	63	60	57	56	54	51	47				
3	85	75	67	61	79	71	64	59	63	58	53	56	52	48	50	46	44	40				
4	77	66	58	52	73	63	55	50	56	50	45	50	45	41	44	41	38	34				
5	71	59	51	44	67	56	48	43	50	44	39	45	40	36	40	36	33	30				
6	65	53	45	39	61	50	43	37	45	39	34	41	35	31	36	32	29	26				
7	61	48	40	34	57	46	38	33	41	35	30	37	32	28	33	29	26	23				
8	56	44	36	30	53	41	34	29	38	31	27	34	29	25	30	26	23	21				
9	52	40	32	27	49	38	31	26	34	28	24	31	26	22	28	24	21	19				
10	49	37	29	24	46	35	28	23	32	26	22	29	24	20	26	22	19	17				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6279	6279	6279
5°	6327	6286	6263
10°	6311	6282	6264
15°	6279	6279	6272
20°	6237	6256	6256
25°	6178	6223	6204
30°	6103	6177	6150
35°	6012	6105	6062
40°	5913	5996	5935
45°	5805	5846	5756
50°	5653	5653	5563
55°	5474	5403	5322
60°	5210	5105	5024
65°	4816	4718	4678
70°	4215	4250	4233
75°	3391	3752	3774
80°	2412	3181	3213
85°	1468	2668	2668



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.6	2.3
10°-20°	277.3	6.7
20°-30°	419.9	10.1
30°-40°	503.4	12.1
40°-50°	513.3	12.4
50°-60°	448.1	10.8
60°-70°	320.8	7.7
70°-80°	165.2	4.0
80°-90°	42.9	1.0
90°-100°	102.8	2.5
100°-110°	270.3	6.5
110°-120°	280.3	6.7
120°-130°	224.9	5.4
130°-140°	176.4	4.2
140°-150°	135.4	3.3
150°-160°	97.5	2.3
160°-170°	59.7	1.4
170°-180°	20.2	0.5
0°-30°	793.8	19.1
0°-40°	1297.2	31.2
0°-60°	2258.5	54.4
0°-90°	2787.4	67.1
90°-120°	653.5	15.7
90°-150°	1190.2	28.6
90°-180°	1368.0	32.9
0°-180°	4155.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1021	1021	1021	1021	1021	
5°	1025	1014	1018	1015	1014	97
15°	986	978	986	986	985	278
25°	910	904	917	914	914	419
35°	801	799	813	807	807	501
45°	667	666	672	664	662	514
55°	510	504	504	496	496	455
65°	331	324	324	321	321	327
75°	143	149	158	159	159	154
85°	21	32	38	39	38	28
90°	1	4	11	5	5	2
95°	14	53	177	91	62	15
105°	49	74	299	454	423	52
115°	87	105	239	478	545	85
125°	120	135	218	368	434	107
135°	143	158	211	297	337	111
145°	166	177	208	253	273	104
155°	188	193	208	229	235	86
165°	203	206	208	216	219	57
175°	211	211	210	212	212	20
180°	211	211	211	211	211	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1020.9	1020.9	1020.9	1020.9	1020.9
2.5°	1027.0	1018.1	1020.9	1018.6	1014.9
5°	1024.7	1014.5	1018.1	1015.2	1014.3
7.5°	1017.3	1007.2	1011.9	1009.9	1009.0
10°	1010.5	1000.4	1005.8	1003.9	1003.0
12.5°	1001.5	992.0	998.2	996.3	996.2
15°	986.0	977.6	986.0	985.9	985.0
17.5°	966.5	958.9	967.8	968.4	967.8
20°	952.9	944.6	955.7	954.8	955.7
22.5°	936.2	929.4	941.3	938.9	939.8
25°	910.3	903.9	916.9	914.1	914.1
27.5°	879.7	875.1	889.3	886.3	886.3
30°	859.3	854.7	869.7	865.9	865.9
32.5°	836.6	833.5	847.8	843.2	843.2
35°	800.7	798.8	813.0	807.3	807.3
37.5°	763.6	762.0	774.8	767.9	765.7
40°	736.4	735.5	746.8	739.2	739.2
42.5°	709.2	708.2	718.1	709.0	709.0
45°	667.4	665.5	672.1	663.6	661.7
47.5°	621.8	620.0	624.1	614.8	613.9
50°	590.8	589.0	590.8	582.3	581.4
52.5°	559.1	555.7	556.0	547.5	547.3
55°	510.5	504.0	503.8	496.3	496.3
57.5°	459.0	450.5	451.3	444.8	443.9
60°	423.5	414.3	415.0	409.3	408.4
62.5°	388.7	378.0	380.2	373.8	373.6
65°	330.9	323.5	324.2	321.4	321.4
67.5°	275.3	268.4	273.4	271.1	270.9
70°	234.4	229.8	236.3	236.3	235.4
72.5°	196.6	196.4	204.6	204.6	205.1
75°	142.7	149.2	157.9	158.8	158.8
77.5°	95.3	106.7	116.3	116.6	116.5
80°	68.1	81.0	89.8	91.7	90.7
82.5°	46.1	59.8	67.1	69.0	68.1
85°	20.8	31.9	37.8	38.7	37.8
87.5°	6.3	13.5	17.3	16.2	14.7
90°	1.4	4.0	10.8	5.4	5.4
92.5°	5.7	27.4	60.6	26.8	17.3
95°	13.5	53.2	177.2	91.3	62.2
97.5°	23.5	58.4	265.1	210.8	155.3
100°	31.1	62.8	292.1	296.1	229.9
102.5°	37.6	67.2	299.7	368.8	312.2
105°	48.7	73.8	298.9	453.8	423.3
107.5°	60.1	83.3	281.9	497.9	505.3
110°	67.6	88.8	267.8	509.3	541.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	75.2	95.3	254.8	502.1	550.8
115°	86.6	105.1	239.4	477.6	545.1
117.5°	97.7	114.6	228.8	443.7	518.6
120°	104.1	120.0	224.5	420.9	493.7
122.5°	110.6	126.5	221.3	398.2	469.9
125°	120.4	134.9	217.8	368.0	434.2
127.5°	128.2	143.0	214.8	343.7	399.5
130°	132.5	148.4	213.7	328.5	380.1
132.5°	136.9	152.7	212.6	315.4	361.7
135°	143.4	157.9	211.0	297.1	336.8
137.5°	150.1	164.4	210.7	283.4	316.0
140°	155.5	168.8	209.6	272.6	303.0
142.5°	159.9	172.0	209.6	264.9	291.1
145°	166.4	176.9	208.3	253.4	273.2
147.5°	172.9	183.2	208.3	243.8	260.2
150°	177.2	186.4	208.3	238.3	251.6
152.5°	181.5	188.7	208.3	233.9	244.0
155°	188.0	193.3	208.3	228.7	235.3
157.5°	192.9	197.9	208.3	224.1	228.8
160°	196.1	200.1	208.3	221.9	224.5
162.5°	199.4	202.3	208.3	219.7	222.4
165°	202.9	205.5	208.3	216.5	219.1
167.5°	206.1	207.4	209.6	215.1	216.1
170°	208.3	209.6	209.6	215.1	215.1
172.5°	209.4	209.6	209.6	213.9	212.9
175°	211.0	211.0	209.6	212.3	212.3
177.5°	211.0	211.0	209.9	212.1	211.0
180°	211.0	211.0	211.0	211.0	211.0

(END OF REPORT)