

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: P562512

Luminaire Tested: **SQ4-PC3-025U-050D-835-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562512
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-835-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

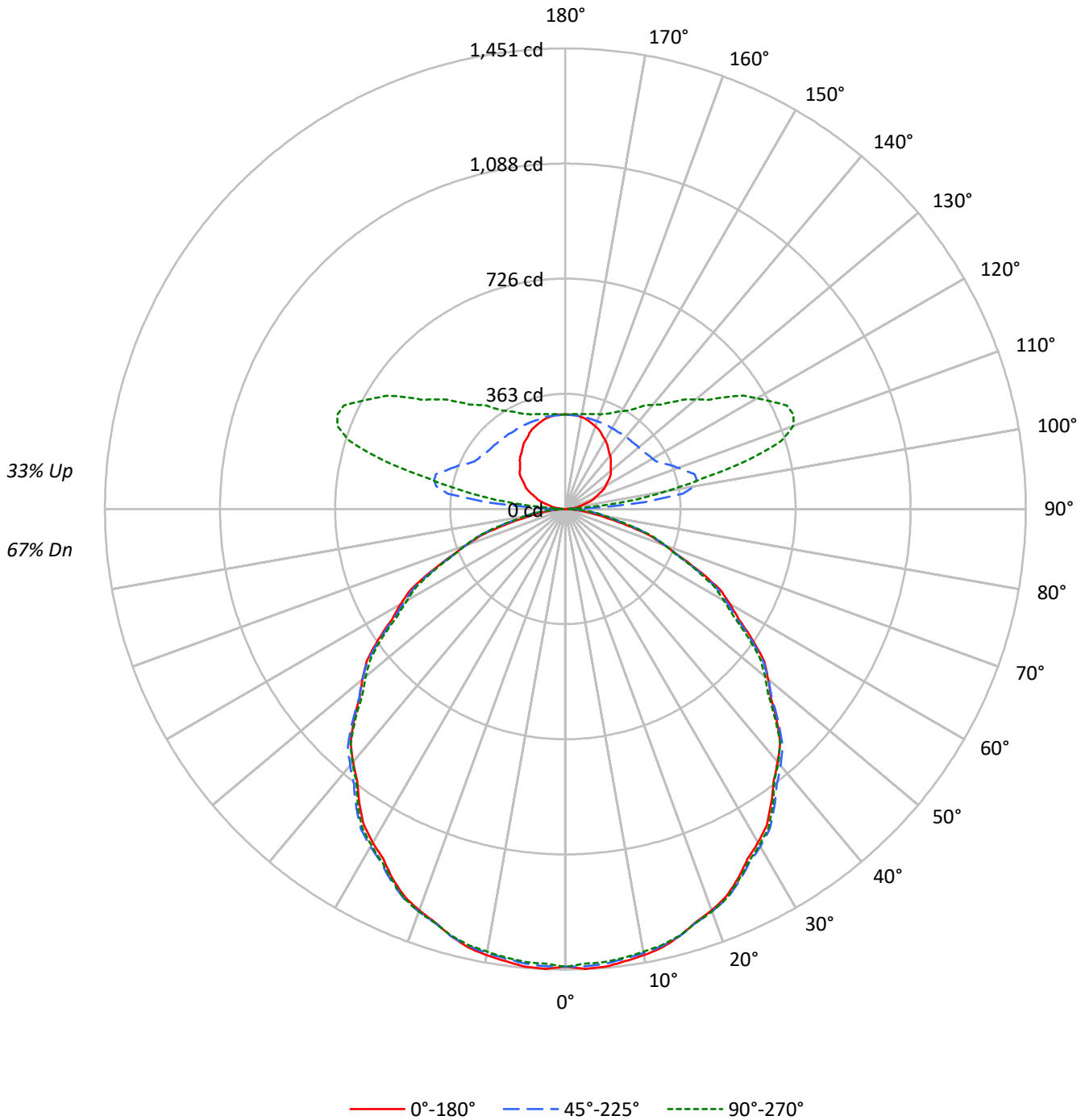
Lumens per Lamp: N/A
Luminaire Lumens: 5869.3 lumens
Efficiency: N/A
Efficacy: 128.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 45.7
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	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°	6653	6653	6653
5°	6703	6660	6635
10°	6687	6655	6637
15°	6652	6652	6645
20°	6608	6627	6627
25°	6545	6593	6573
30°	6466	6544	6516
35°	6369	6467	6422
40°	6264	6353	6288
45°	6150	6194	6098
50°	5990	5990	5894
55°	5800	5724	5638
60°	5519	5408	5323
65°	5102	4999	4956
70°	4467	4502	4485
75°	3593	3975	3998
80°	2553	3371	3406
85°	1556	2826	2826



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.5	2.3
10°-20°	391.7	6.7
20°-30°	593.1	10.1
30°-40°	711.1	12.1
40°-50°	725.1	12.4
50°-60°	632.9	10.8
60°-70°	453.1	7.7
70°-80°	233.4	4.0
80°-90°	60.6	1.0
90°-100°	145.3	2.5
100°-110°	381.9	6.5
110°-120°	396.0	6.7
120°-130°	317.6	5.4
130°-140°	249.2	4.2
140°-150°	191.3	3.3
150°-160°	137.8	2.3
160°-170°	84.3	1.4
170°-180°	28.5	0.5
0°-30°	1121.3	19.1
0°-40°	1832.4	31.2
0°-60°	3190.4	54.4
0°-90°	3937.5	67.1
90°-120°	923.2	15.7
90°-150°	1681.3	28.6
90°-180°	1932.0	32.9
0°-180°	5869.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1442	1442	1442	1442	1442	
5°	1448	1433	1438	1434	1433	137
15°	1393	1381	1393	1393	1391	393
25°	1286	1277	1295	1291	1291	592
35°	1131	1128	1148	1140	1140	707
45°	943	940	949	937	935	726
55°	721	712	712	701	701	643
65°	467	457	458	454	454	462
75°	202	211	223	224	224	218
85°	29	45	53	55	53	40
90°	2	6	15	8	8	3
95°	19	75	250	129	88	21
105°	69	104	422	641	598	73
115°	122	148	338	675	770	121
125°	170	191	308	520	613	151
135°	202	223	298	420	476	157
145°	235	250	294	358	386	147
155°	266	273	294	323	332	122
165°	287	290	294	306	310	81
175°	298	298	296	300	300	28
180°	298	298	298	298	298	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1442.2	1442.2	1442.2	1442.2	1442.2
2.5°	1450.7	1438.2	1442.2	1438.8	1433.6
5°	1447.5	1433.1	1438.2	1434.1	1432.8
7.5°	1437.1	1422.7	1429.3	1426.6	1425.3
10°	1427.5	1413.1	1420.8	1418.1	1416.8
12.5°	1414.7	1401.3	1410.1	1407.4	1407.2
15°	1392.8	1381.0	1392.8	1392.7	1391.4
17.5°	1365.2	1354.5	1367.1	1367.9	1367.1
20°	1346.0	1334.3	1350.0	1348.7	1350.0
22.5°	1322.5	1312.9	1329.7	1326.3	1327.6
25°	1285.9	1276.8	1295.3	1291.3	1291.3
27.5°	1242.7	1236.1	1256.3	1252.0	1252.0
30°	1213.8	1207.3	1228.5	1223.2	1223.2
32.5°	1181.8	1177.3	1197.5	1191.1	1191.1
35°	1131.0	1128.4	1148.4	1140.4	1140.4
37.5°	1078.7	1076.3	1094.4	1084.8	1081.6
40°	1040.2	1038.9	1054.9	1044.2	1044.2
42.5°	1001.8	1000.5	1014.3	1001.5	1001.5
45°	942.7	940.1	949.4	937.3	934.7
47.5°	878.4	875.8	881.6	868.5	867.2
50°	834.6	832.0	834.6	822.5	821.2
52.5°	789.7	785.0	785.4	773.4	773.2
55°	721.1	711.9	711.7	701.0	701.0
57.5°	648.4	636.4	637.5	628.4	627.1
60°	598.2	585.2	586.2	578.2	576.9
62.5°	549.1	533.9	537.1	528.0	527.7
65°	467.4	456.9	458.0	454.0	454.0
67.5°	388.8	379.2	386.2	383.0	382.7
70°	331.2	324.6	333.8	333.8	332.5
72.5°	277.7	277.5	289.0	289.0	289.8
75°	201.6	210.8	223.0	224.3	224.3
77.5°	134.6	150.8	164.2	164.8	164.5
80°	96.1	114.4	126.9	129.5	128.2
82.5°	65.2	84.5	94.8	97.4	96.1
85°	29.4	45.0	53.4	54.7	53.4
87.5°	8.9	19.1	24.4	22.8	20.8
90°	1.9	5.6	15.3	7.6	7.6
92.5°	8.0	38.7	85.6	37.9	24.5
95°	19.1	75.1	250.3	129.0	87.9
97.5°	33.2	82.6	374.5	297.8	219.3
100°	43.9	88.8	412.7	418.2	324.8
102.5°	53.1	95.0	423.4	520.9	441.0
105°	68.8	104.3	422.2	641.0	598.0
107.5°	84.8	117.7	398.2	703.3	713.8
110°	95.5	125.4	378.3	719.4	764.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	106.2	134.6	360.0	709.2	778.0
115°	122.3	148.4	338.2	674.7	770.0
117.5°	137.9	161.9	323.3	626.8	732.5
120°	147.1	169.5	317.2	594.6	697.4
122.5°	156.3	178.7	312.6	562.5	663.7
125°	170.0	190.6	307.6	519.9	613.3
127.5°	181.1	202.0	303.4	485.5	564.4
130°	187.2	209.7	301.9	464.0	536.9
132.5°	193.4	215.8	300.3	445.5	510.9
135°	202.5	223.1	298.0	419.7	475.7
137.5°	212.1	232.2	297.7	400.4	446.3
140°	219.7	238.4	296.1	385.0	428.0
142.5°	225.8	243.0	296.1	374.2	411.2
145°	235.0	249.9	294.2	357.9	385.9
147.5°	244.2	258.7	294.2	344.4	367.6
150°	250.3	263.4	294.2	336.7	355.4
152.5°	256.4	266.5	294.2	330.5	344.7
155°	265.6	273.0	294.2	323.1	332.4
157.5°	272.4	279.5	294.2	316.5	323.3
160°	277.0	282.6	294.2	313.4	317.2
162.5°	281.6	285.7	294.2	310.4	314.1
165°	286.6	290.3	294.2	305.8	309.5
167.5°	291.2	293.0	296.1	303.8	305.3
170°	294.2	296.1	296.1	303.8	303.8
172.5°	295.8	296.1	296.1	302.2	300.7
175°	298.0	298.0	296.1	300.0	300.0
177.5°	298.0	298.0	296.5	299.5	298.0
180°	298.0	298.0	298.0	298.0	298.0

(END OF REPORT)