

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: P561533

Luminaire Tested: **SQ4-PC3-075U-075D-92765-1D-UNV-STD-W-4 (4000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561533
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-PC3-075U-075D-92765-1D-UNV-STD-W-4 (4000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

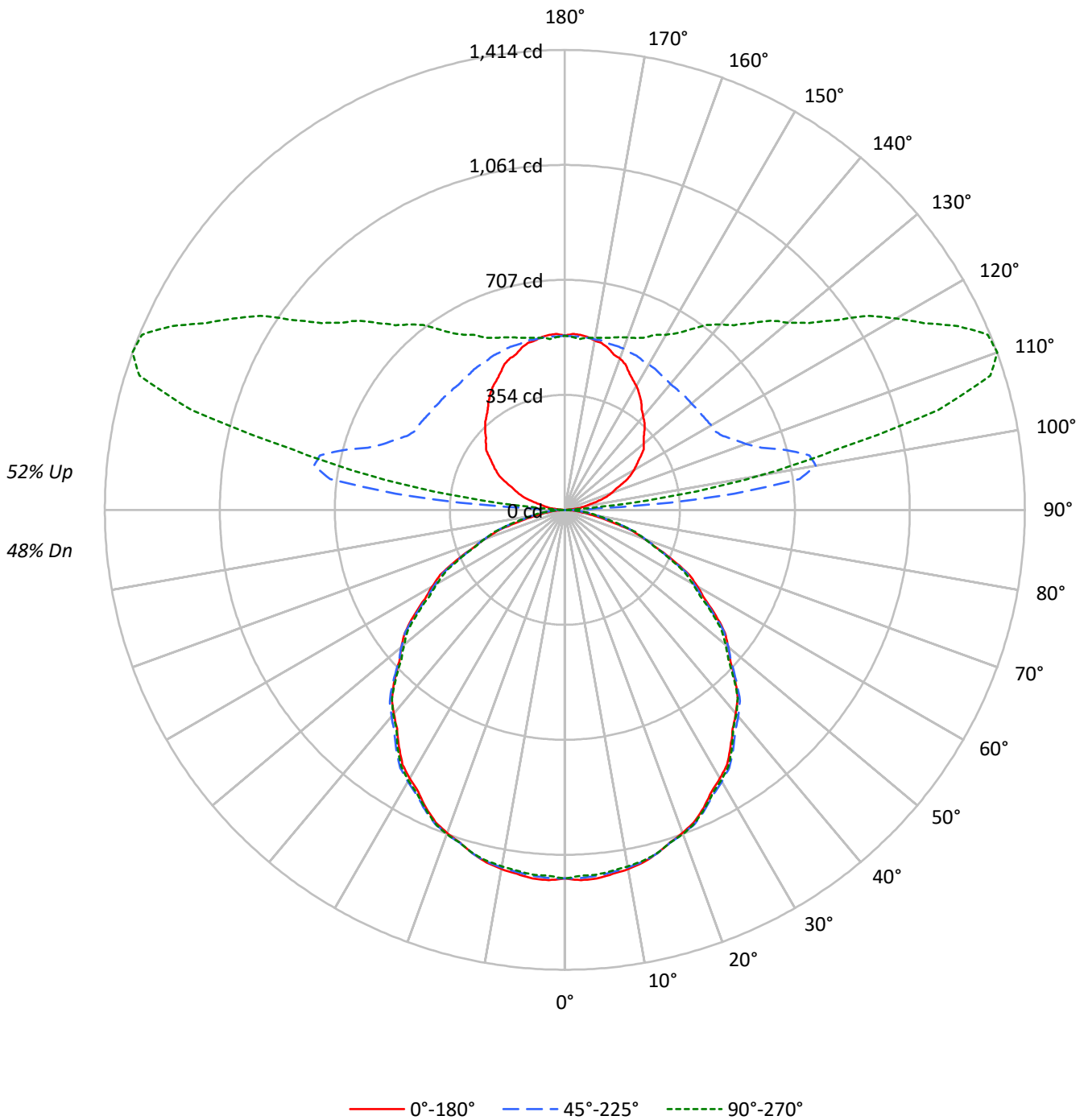
Lumens per Lamp: N/A
Luminaire Lumens: 6419.4 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 55.6
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	107	107	107	107	98	98	98	98	82	82	82	68	68	68	54	54	54	48
1	97	93	89	86	90	86	83	80	72	70	68	60	58	57	48	47	46	41
2	89	81	75	70	81	75	70	65	63	59	56	52	50	47	42	41	39	34
3	81	71	64	58	74	66	60	55	56	51	47	46	43	40	38	35	33	29
4	74	63	55	49	68	58	52	46	50	44	40	41	37	34	34	31	28	25
5	68	56	48	42	62	52	45	40	44	39	35	37	33	30	30	27	25	21
6	62	50	42	37	57	47	40	34	40	34	30	33	29	26	27	24	22	19
7	58	45	38	32	53	42	35	30	36	30	26	30	26	23	25	22	19	17
8	54	41	33	28	49	38	31	27	33	27	23	28	23	20	23	20	17	15
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	16	13
10	47	34	27	22	43	32	26	21	28	22	19	23	19	16	20	16	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10453	10453	10453
5°	10532	10465	10426
10°	10507	10458	10428
15°	10451	10451	10442
20°	10383	10414	10414
25°	10285	10359	10328
30°	10159	10283	10238
35°	10008	10162	10091
40°	9844	9982	9881
45°	9665	9732	9582
50°	9412	9412	9261
55°	9112	8995	8860
60°	8673	8499	8363
65°	8016	7855	7787
70°	7019	7076	7046
75°	5647	6245	6285
80°	4011	5297	5350
85°	2445	4446	4446



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.2	1.7
10°-20°	307.7	4.8
20°-30°	466.0	7.3
30°-40°	558.7	8.7
40°-50°	569.6	8.9
50°-60°	497.3	7.7
60°-70°	356.0	5.5
70°-80°	183.4	2.9
80°-90°	46.4	0.7
90°-100°	244.1	3.8
100°-110°	694.5	10.8
110°-120°	665.4	10.4
120°-130°	526.6	8.2
130°-140°	422.7	6.6
140°-150°	330.9	5.2
150°-160°	242.1	3.8
160°-170°	150.0	2.3
170°-180°	50.9	0.8
0°-30°	880.9	13.7
0°-40°	1439.6	22.4
0°-60°	2506.5	39.0
0°-90°	3092.3	48.2
90°-120°	1603.9	25.0
90°-150°	2884.1	44.9
90°-180°	3327.0	51.8
0°-180°	6419.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1133	1133	1133	1133	1133	
5°	1137	1126	1130	1127	1126	108
15°	1094	1085	1094	1094	1093	309
25°	1010	1003	1018	1014	1014	465
35°	889	886	902	896	896	556
45°	741	739	746	736	734	570
55°	566	559	559	551	551	505
65°	367	359	360	357	357	363
75°	158	166	175	176	176	171
85°	23	35	42	43	42	31
90°	0	0	0	0	0	2
95°	26	105	472	164	101	30
105°	108	164	708	1250	1188	114
115°	201	242	537	1137	1335	198
125°	283	314	512	850	1016	253
135°	346	375	506	718	812	267
145°	408	429	510	621	677	255
155°	466	477	522	562	584	216
165°	515	517	528	540	548	145
175°	540	537	535	532	528	51
180°	536	536	536	536	536	

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CATALOG NUMBER: SQ4-PC3-075U-075D-92765-1D-UNV-STD-W-4 (4000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1133.0	1133.0	1133.0	1133.0	1133.0
2.5°	1139.8	1129.9	1133.0	1130.4	1126.3
5°	1137.2	1126.0	1129.9	1126.7	1125.7
7.5°	1129.1	1117.8	1123.0	1120.8	1119.8
10°	1121.5	1110.2	1116.3	1114.1	1113.1
12.5°	1111.4	1101.0	1107.9	1105.8	1105.6
15°	1094.2	1085.0	1094.2	1094.2	1093.2
17.5°	1072.6	1064.2	1074.1	1074.7	1074.1
20°	1057.5	1048.3	1060.7	1059.6	1060.7
22.5°	1039.0	1031.4	1044.7	1042.0	1043.0
25°	1010.3	1003.1	1017.6	1014.5	1014.5
27.5°	976.3	971.2	987.0	983.6	983.6
30°	953.6	948.5	965.2	961.0	961.0
32.5°	928.5	925.0	940.8	935.8	935.8
35°	888.6	886.5	902.2	895.9	895.9
37.5°	847.5	845.6	859.9	852.2	849.8
40°	817.3	816.2	828.8	820.4	820.4
42.5°	787.0	786.0	796.9	786.8	786.8
45°	740.7	738.6	745.9	736.4	734.4
47.5°	690.1	688.1	692.6	682.3	681.3
50°	655.7	653.6	655.7	646.2	645.2
52.5°	620.4	616.8	617.1	607.6	607.4
55°	566.5	559.3	559.2	550.8	550.8
57.5°	509.4	500.0	500.8	493.7	492.7
60°	470.0	459.7	460.6	454.2	453.2
62.5°	431.4	419.5	422.0	414.8	414.6
65°	367.2	359.0	359.8	356.7	356.7
67.5°	305.5	297.9	303.4	300.9	300.7
70°	260.2	255.1	262.3	262.3	261.2
72.5°	218.2	218.0	227.0	227.0	227.7
75°	158.4	165.6	175.2	176.3	176.3
77.5°	105.8	118.5	129.0	129.5	129.3
80°	75.5	89.9	99.7	101.7	100.7
82.5°	51.2	66.4	74.5	76.6	75.5
85°	23.1	35.4	42.0	43.0	42.0
87.5°	6.7	14.1	16.8	16.7	15.1
90°	0.0	0.0	0.0	0.0	0.0
92.5°	8.1	43.2	100.2	29.2	22.0
95°	26.5	105.1	472.5	163.5	100.8
97.5°	48.7	123.2	727.7	520.7	356.8
100°	64.2	133.8	783.1	793.2	611.0
102.5°	81.3	145.4	770.8	1015.3	856.2
105°	107.9	163.7	707.7	1250.1	1188.4
107.5°	135.0	185.0	634.0	1316.3	1371.2
110°	153.8	200.6	591.6	1290.9	1414.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	171.7	216.1	563.1	1231.0	1407.1
115°	200.6	242.4	536.6	1136.8	1335.0
117.5°	226.1	265.3	521.0	1033.9	1243.7
120°	246.4	279.3	519.3	975.0	1176.1
122.5°	262.7	295.6	515.3	923.4	1110.1
125°	283.1	314.0	512.2	850.0	1016.3
127.5°	305.3	334.2	510.6	806.1	943.1
130°	316.7	345.6	508.1	775.6	895.1
132.5°	328.9	357.0	508.1	751.8	861.7
135°	346.2	375.1	506.1	718.0	811.6
137.5°	362.5	390.6	505.9	689.4	770.2
140°	374.7	403.6	505.1	665.7	743.4
142.5°	388.6	412.7	507.5	646.8	716.5
145°	408.3	429.2	510.2	621.4	677.2
147.5°	425.2	445.6	514.6	595.8	644.0
150°	439.9	453.8	516.3	587.3	621.2
152.5°	451.3	466.0	517.9	575.8	607.3
155°	466.4	477.3	522.4	561.6	584.5
157.5°	485.1	491.7	523.4	555.1	571.5
160°	494.9	499.9	527.5	550.2	564.1
162.5°	500.6	506.4	528.3	546.1	556.8
165°	515.3	517.2	528.5	539.9	547.8
167.5°	525.2	523.4	533.2	538.3	541.5
170°	528.5	527.5	531.5	532.7	536.6
172.5°	535.8	532.4	534.0	531.0	534.2
175°	539.7	536.7	534.6	531.5	527.5
177.5°	541.3	536.5	534.0	530.8	531.5
180°	535.6	535.6	535.6	535.6	535.6

(END OF REPORT)