

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: P562827

Luminaire Tested: **SQ4-PC3-0U-075D-840-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562827  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (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-PC3-0U-075D-840-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

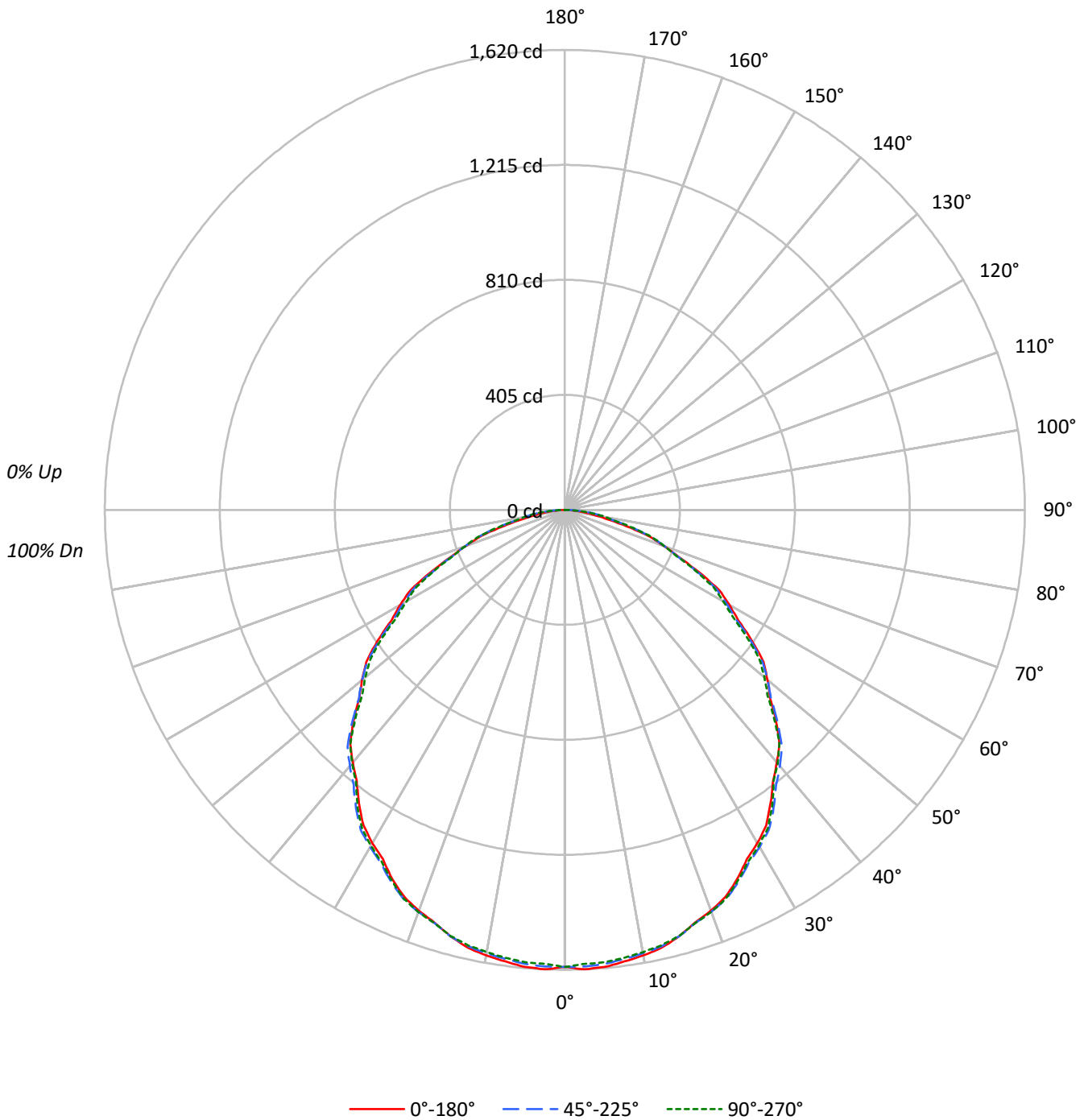
Lumens per Lamp: N/A  
Luminaire Lumens: 4394.6 lumens  
Efficiency: N/A  
Efficacy: 108.8 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Direct

Input Watts (W): 40.4  
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



TEST NUMBER: P562827  
CATALOG NUMBER: SQ4-PC3-0U-075D-840-1D-UNV-STD-W-6

### Luminous Intensity Polar Plot





TEST NUMBER: P562827

CATALOG NUMBER: SQ4-PC3-0U-075D-840-1D-UNV-STD-W-6

**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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	54	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	9904	9904	9904
5°	9979	9914	9878
10°	9954	9908	9880
15°	9903	9903	9893
20°	9837	9866	9866
25°	9744	9815	9784
30°	9626	9742	9700
35°	9482	9628	9561
40°	9325	9457	9361
45°	9156	9221	9079
50°	8916	8916	8774
55°	8634	8522	8393
60°	8216	8051	7923
65°	7594	7443	7377
70°	6650	6703	6676
75°	5349	5917	5953
80°	3801	5016	5069
85°	2315	4206	4206



TEST NUMBER: P562827

CATALOG NUMBER: SQ4-PC3-0U-075D-840-1D-UNV-STD-W-6

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	152.4	3.5
10°-20°	437.3	10.0
20°-30°	662.3	15.1
30°-40°	794.0	18.1
40°-50°	809.6	18.4
50°-60°	706.7	16.1
60°-70°	505.9	11.5
70°-80°	260.6	5.9
80°-90°	65.9	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1252.0	28.5
0°-40°	2045.9	46.6
0°-60°	3562.2	81.1
0°-90°	4394.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4394.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1610	1610	1610	1610	1610	
5°	1616	1600	1606	1601	1600	153
15°	1555	1542	1555	1555	1554	438
25°	1436	1426	1446	1442	1442	661
35°	1263	1260	1282	1273	1273	790
45°	1053	1050	1060	1047	1044	810
55°	805	795	795	783	783	718
65°	522	510	511	507	507	516
75°	225	235	249	250	250	243
85°	33	50	60	61	60	46
90°	0	0	0	0	0	



TEST NUMBER: P562827

CATALOG NUMBER: SQ4-PC3-0U-075D-840-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1610.2	1610.2	1610.2	1610.2	1610.2
2.5°	1619.8	1605.8	1610.2	1606.5	1600.7
5°	1616.2	1600.2	1605.7	1601.2	1599.8
7.5°	1604.6	1588.5	1595.9	1592.9	1591.4
10°	1593.8	1577.8	1586.4	1583.4	1581.9
12.5°	1579.5	1564.6	1574.4	1571.5	1571.2
15°	1555.1	1541.9	1555.1	1555.0	1553.6
17.5°	1524.3	1512.4	1526.4	1527.3	1526.4
20°	1502.9	1489.8	1507.3	1505.9	1507.3
22.5°	1476.6	1465.8	1484.7	1480.8	1482.3
25°	1435.8	1425.6	1446.2	1441.7	1441.7
27.5°	1387.5	1380.2	1402.7	1397.9	1397.9
30°	1355.3	1348.0	1371.7	1365.7	1365.7
32.5°	1319.5	1314.5	1337.1	1329.9	1329.9
35°	1262.8	1259.9	1282.2	1273.3	1273.3
37.5°	1204.4	1201.8	1222.0	1211.2	1207.7
40°	1161.4	1160.0	1177.8	1165.9	1165.9
42.5°	1118.5	1117.1	1132.5	1118.2	1118.2
45°	1052.6	1049.7	1060.1	1046.6	1043.7
47.5°	980.7	977.8	984.3	969.7	968.2
50°	931.8	928.9	931.8	918.4	916.9
52.5°	881.7	876.5	877.0	863.5	863.3
55°	805.1	794.9	794.7	782.7	782.7
57.5°	724.0	710.6	711.8	701.6	700.1
60°	667.9	653.4	654.5	645.5	644.1
62.5°	613.1	596.2	599.7	589.5	589.2
65°	521.8	510.2	511.4	506.9	506.9
67.5°	434.2	423.4	431.2	427.6	427.3
70°	369.8	362.5	372.7	372.7	371.2
72.5°	310.1	309.8	322.6	322.7	323.5
75°	225.1	235.3	249.0	250.5	250.5
77.5°	150.3	168.4	183.4	184.0	183.7
80°	107.3	127.8	141.6	144.6	143.1
82.5°	72.8	94.3	105.9	108.8	107.3
85°	32.8	50.3	59.6	61.1	59.6
87.5°	9.5	20.0	23.9	23.8	21.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)