

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: P562816

Luminaire Tested: **SQ4-PC3-0U-050D-940-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562816  
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-050D-940-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

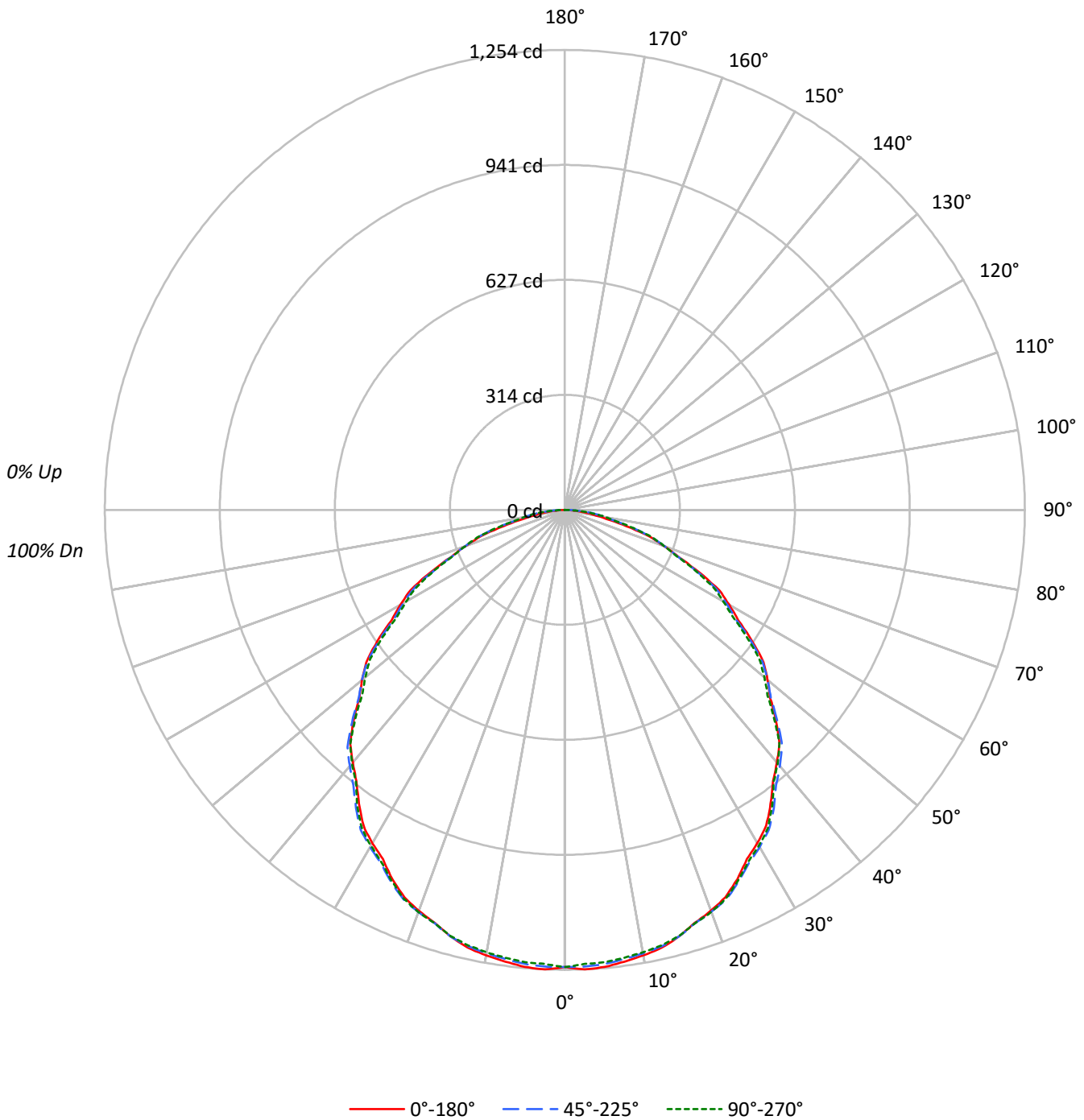
Lumens per Lamp: N/A  
Luminaire Lumens: 3402.5 lumens  
Efficiency: N/A  
Efficacy: 96.7 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Direct

Input Watts (W): 35.2  
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	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°	5751	5751	5751
5°	5794	5757	5736
10°	5780	5753	5737
15°	5750	5750	5745
20°	5712	5729	5729
25°	5659	5699	5682
30°	5589	5657	5633
35°	5507	5591	5552
40°	5416	5492	5436
45°	5317	5355	5272
50°	5178	5178	5095
55°	5014	4949	4874
60°	4772	4676	4601
65°	4410	4321	4284
70°	3862	3893	3876
75°	3107	3436	3456
80°	2208	2914	2943
85°	1344	2445	2445



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	118.0	3.5
10°-20°	338.6	10.0
20°-30°	512.8	15.1
30°-40°	614.7	18.1
40°-50°	626.8	18.4
50°-60°	547.2	16.1
60°-70°	391.7	11.5
70°-80°	201.8	5.9
80°-90°	51.0	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°	969.3	28.5
0°-40°	1584.1	46.6
0°-60°	2758.0	81.1
0°-90°	3402.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3402.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1247	1247	1247	1247	1247	
5°	1251	1239	1243	1240	1239	119
15°	1204	1194	1204	1204	1203	339
25°	1112	1104	1120	1116	1116	512
35°	978	976	993	986	986	611
45°	815	813	821	810	808	627
55°	623	616	615	606	606	556
65°	404	395	396	392	392	400
75°	174	182	193	194	194	188
85°	25	39	46	47	46	36
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1246.7	1246.7	1246.7	1246.7	1246.7
2.5°	1254.1	1243.3	1246.7	1243.8	1239.3
5°	1251.3	1238.9	1243.3	1239.8	1238.6
7.5°	1242.3	1229.9	1235.6	1233.3	1232.2
10°	1234.0	1221.6	1228.2	1225.9	1224.8
12.5°	1222.9	1211.4	1219.0	1216.7	1216.5
15°	1204.0	1193.8	1204.0	1204.0	1202.9
17.5°	1180.2	1171.0	1181.8	1182.5	1181.8
20°	1163.6	1153.4	1167.1	1165.9	1167.1
22.5°	1143.3	1134.9	1149.5	1146.5	1147.7
25°	1111.7	1103.8	1119.7	1116.3	1116.3
27.5°	1074.3	1068.6	1086.0	1082.3	1082.3
30°	1049.3	1043.7	1062.0	1057.4	1057.4
32.5°	1021.6	1017.8	1035.2	1029.7	1029.7
35°	977.8	975.5	992.8	985.8	985.8
37.5°	932.5	930.5	946.1	937.7	935.0
40°	899.3	898.1	912.0	902.7	902.7
42.5°	866.0	864.9	876.9	865.8	865.8
45°	815.0	812.7	820.8	810.3	808.1
47.5°	759.3	757.1	762.1	750.8	749.6
50°	721.5	719.2	721.5	711.1	709.9
52.5°	682.7	678.6	679.0	668.6	668.4
55°	623.4	615.5	615.3	606.0	606.0
57.5°	560.6	550.2	551.1	543.2	542.1
60°	517.2	505.9	506.8	499.8	498.7
62.5°	474.7	461.6	464.3	456.4	456.2
65°	404.0	395.0	395.9	392.5	392.5
67.5°	336.2	327.8	333.8	331.1	330.8
70°	286.3	280.6	288.6	288.6	287.4
72.5°	240.1	239.9	249.8	249.8	250.5
75°	174.3	182.2	192.8	193.9	193.9
77.5°	116.4	130.4	142.0	142.4	142.2
80°	83.1	98.9	109.7	111.9	110.8
82.5°	56.3	73.0	82.0	84.2	83.1
85°	25.4	38.9	46.2	47.3	46.2
87.5°	7.4	15.5	18.5	18.4	16.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)