

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: P562799

Luminaire Tested: **SQ4-PC3-0U-050D-835-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562799  
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-835-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

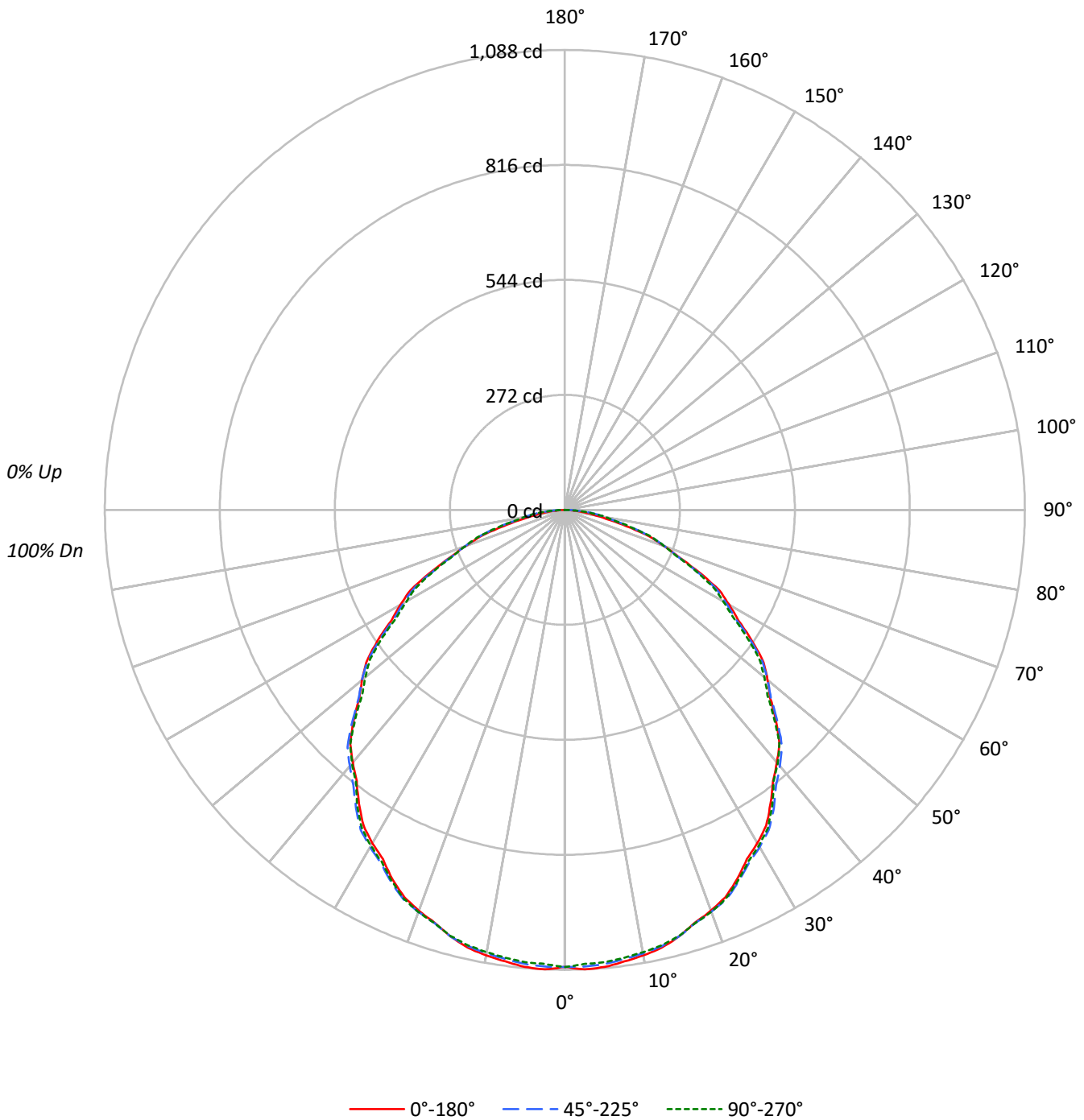
Lumens per Lamp: N/A  
Luminaire Lumens: 2952.0 lumens  
Efficiency: N/A  
Efficacy: 110.6 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Direct

Input Watts (W): 26.7  
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	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°	6653	6653	6653
5°	6703	6660	6635
10°	6687	6655	6637
15°	6652	6652	6645
20°	6608	6627	6627
25°	6545	6593	6572
30°	6466	6544	6516
35°	6370	6467	6422
40°	6264	6353	6289
45°	6151	6194	6098
50°	5989	5989	5894
55°	5799	5724	5638
60°	5520	5409	5322
65°	5101	4999	4956
70°	4467	4503	4485
75°	3593	3976	4000
80°	2554	3369	3404
85°	1553	2830	2830



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.4	3.5
10°-20°	293.8	10.0
20°-30°	444.9	15.1
30°-40°	533.3	18.1
40°-50°	543.8	18.4
50°-60°	474.7	16.1
60°-70°	339.8	11.5
70°-80°	175.0	5.9
80°-90°	44.3	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°	841.0	28.5
0°-40°	1374.3	46.6
0°-60°	2392.8	81.1
0°-90°	2952.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2952.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1082	1082	1082	1082	1082	
5°	1086	1075	1079	1076	1075	103
15°	1045	1036	1045	1044	1044	295
25°	964	958	972	968	968	444
35°	848	846	861	855	855	531
45°	707	705	712	703	701	544
55°	541	534	534	526	526	482
65°	350	343	344	340	340	347
75°	151	158	167	168	168	163
85°	22	34	40	41	40	31
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1081.6	1081.6	1081.6	1081.6	1081.6
2.5°	1088.0	1078.6	1081.6	1079.1	1075.2
5°	1085.6	1074.9	1078.6	1075.6	1074.6
7.5°	1077.8	1067.0	1072.0	1070.0	1069.0
10°	1070.6	1059.8	1065.6	1063.6	1062.6
12.5°	1061.0	1051.0	1057.6	1055.6	1055.4
15°	1044.6	1035.8	1044.6	1044.5	1043.6
17.5°	1023.9	1015.9	1025.3	1025.9	1025.3
20°	1009.5	1000.7	1012.5	1011.5	1012.5
22.5°	991.9	984.6	997.3	994.7	995.7
25°	964.4	957.6	971.5	968.4	968.4
27.5°	932.0	927.1	942.2	939.0	939.0
30°	910.4	905.5	921.4	917.4	917.4
32.5°	886.3	883.0	898.1	893.3	893.3
35°	848.3	846.3	861.3	855.3	855.3
37.5°	809.0	807.2	820.8	813.6	811.2
40°	780.2	779.2	791.2	783.2	783.2
42.5°	751.3	750.3	760.7	751.1	751.1
45°	707.1	705.1	712.1	703.0	701.0
47.5°	658.8	656.8	661.2	651.4	650.4
50°	625.9	624.0	625.9	616.9	615.9
52.5°	592.3	588.8	589.1	580.1	579.9
55°	540.8	534.0	533.8	525.8	525.8
57.5°	486.3	477.3	478.1	471.3	470.3
60°	448.7	438.9	439.7	433.6	432.6
62.5°	411.8	400.5	402.8	396.0	395.8
65°	350.5	342.7	343.5	340.5	340.5
67.5°	291.6	284.4	289.6	287.2	287.0
70°	248.4	243.5	250.4	250.4	249.4
72.5°	208.3	208.1	216.7	216.7	217.3
75°	151.2	158.1	167.3	168.3	168.3
77.5°	101.0	113.1	123.2	123.6	123.4
80°	72.1	85.8	95.1	97.1	96.1
82.5°	48.9	63.4	71.1	73.1	72.1
85°	22.0	33.8	40.1	41.0	40.1
87.5°	6.4	13.5	16.0	16.0	14.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)