

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: P564147

Luminaire Tested: **SQ4-PR1-0U-050D-840-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564147  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PR1-0U-050D-840-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

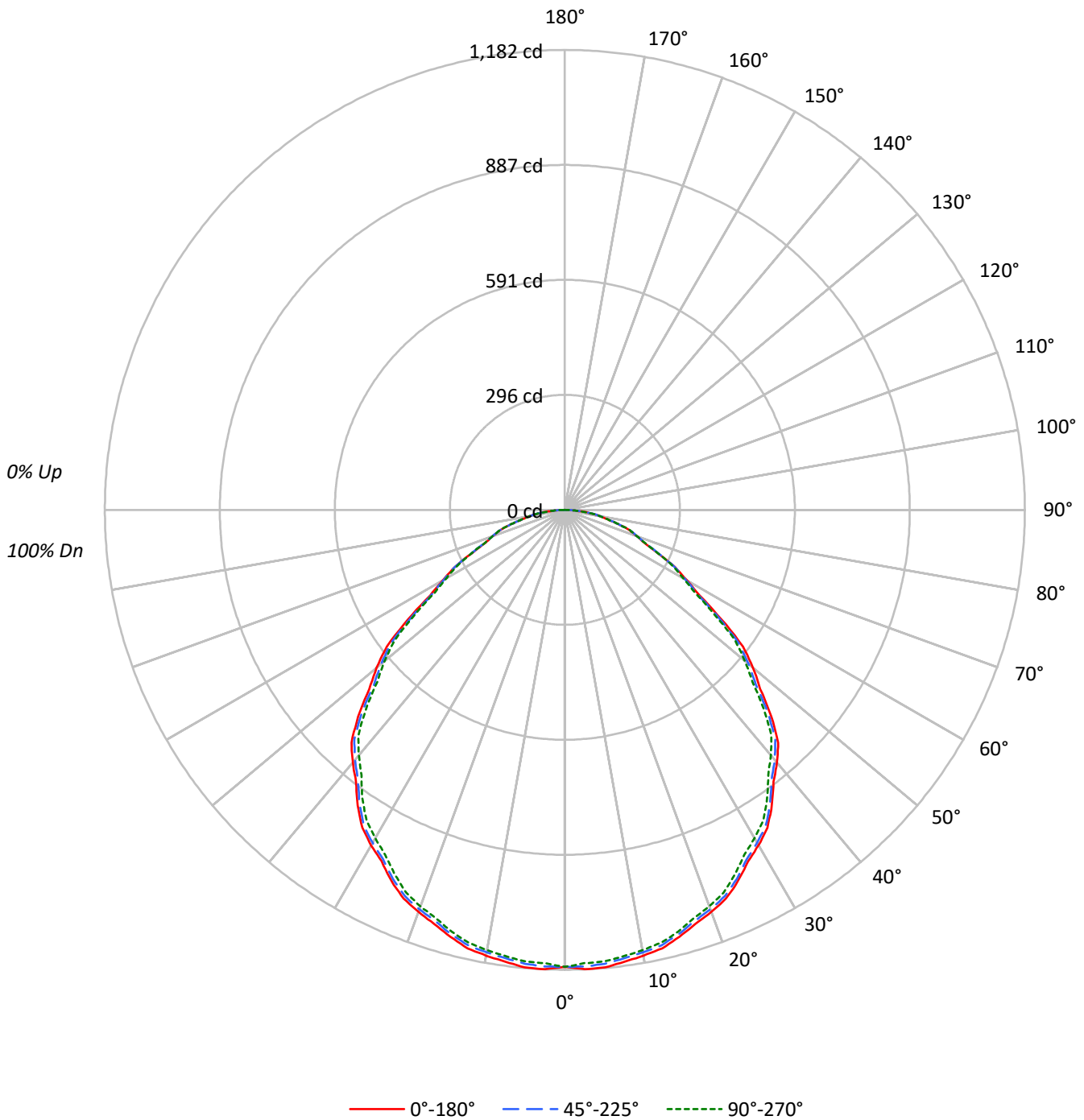
Lumens per Lamp: N/A  
Luminaire Lumens: 2935.9 lumens  
Efficiency: N/A  
Efficacy: 110.0 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Direct

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	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54
5	78	66	57	51	76	65	57	50	63	55	50	61	54	49	59	53	49	47
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	41
7	67	54	46	40	65	53	45	39	52	44	39	50	44	39	49	43	39	37
8	63	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30
10	55	42	34	29	54	41	34	29	40	34	29	40	33	29	39	33	29	27

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

	0°	45°	90°
0°	7224	7224	7224
5°	7289	7233	7195
10°	7266	7215	7177
15°	7234	7189	7150
20°	7197	7151	7098
25°	7146	7099	7016
30°	7070	7019	6918
35°	6965	6904	6806
40°	6806	6733	6611
45°	6529	6414	6283
50°	6040	5894	5779
55°	5272	5153	5044
60°	4442	4405	4318
65°	3842	3857	3828
70°	3528	3548	3548
75°	3389	3389	3413
80°	3188	3223	3188
85°	2569	2858	2858



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	111.1	3.8
10°-20°	317.8	10.8
20°-30°	479.3	16.3
30°-40°	571.1	19.5
40°-50°	563.0	19.2
50°-60°	430.3	14.7
60°-70°	266.3	9.1
70°-80°	151.2	5.2
80°-90°	46.0	1.6
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°	908.1	30.9
0°-40°	1479.1	50.4
0°-60°	2472.4	84.2
0°-90°	2935.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2935.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1174	1174	1174	1174	1174	
5°	1180	1168	1171	1167	1165	112
15°	1136	1124	1129	1125	1123	321
25°	1053	1040	1046	1035	1034	485
35°	928	917	920	907	906	579
45°	751	741	737	724	722	575
55°	492	484	480	472	470	440
65°	264	262	265	263	263	267
75°	143	143	143	144	144	151
85°	36	38	40	40	40	44
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1174.4	1174.4	1174.4	1174.4	1174.4
2.5°	1181.7	1171.4	1174.4	1171.9	1166.3
5°	1180.5	1167.6	1171.4	1167.3	1165.3
7.5°	1171.4	1158.7	1162.5	1158.4	1157.2
10°	1163.3	1151.4	1155.2	1151.1	1149.1
12.5°	1154.4	1141.7	1146.3	1141.4	1139.4
15°	1136.0	1124.1	1128.9	1124.8	1122.8
17.5°	1115.8	1103.1	1107.9	1103.2	1100.6
20°	1099.6	1087.7	1092.5	1085.4	1084.4
22.5°	1081.8	1069.9	1074.7	1065.2	1065.0
25°	1053.0	1040.2	1046.0	1034.8	1033.8
27.5°	1018.9	1007.0	1011.8	1000.4	999.2
30°	995.4	983.5	988.3	976.1	974.1
32.5°	968.7	957.6	961.6	949.4	948.2
35°	927.6	916.7	919.5	907.4	906.4
37.5°	880.9	871.0	872.6	859.2	858.2
40°	847.7	837.8	838.6	824.4	823.4
42.5°	811.3	801.4	800.6	786.4	785.4
45°	750.6	740.7	737.4	724.2	722.3
47.5°	681.4	671.5	665.4	654.7	653.3
50°	631.2	621.3	616.0	606.9	603.9
52.5°	577.0	567.1	562.6	554.3	551.3
55°	491.6	483.7	480.5	472.4	470.4
57.5°	410.5	405.2	404.2	396.3	395.5
60°	361.1	358.2	358.1	351.0	351.0
62.5°	319.1	316.9	318.4	313.8	313.0
65°	264.0	262.0	265.0	263.0	263.0
67.5°	220.5	220.5	222.3	221.5	221.5
70°	196.2	196.2	197.3	197.3	197.3
72.5°	174.4	173.6	176.2	176.2	175.4
75°	142.6	142.6	142.6	143.6	143.6
77.5°	111.1	111.3	112.1	111.9	111.1
80°	90.0	91.0	91.0	90.0	90.0
82.5°	69.0	70.0	70.0	69.8	69.0
85°	36.4	38.4	40.5	40.5	40.5
87.5°	10.5	13.7	16.2	16.2	15.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)