

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: P564139

Luminaire Tested: **SQ4-PR1-0U-050D-830-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564139
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-830-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

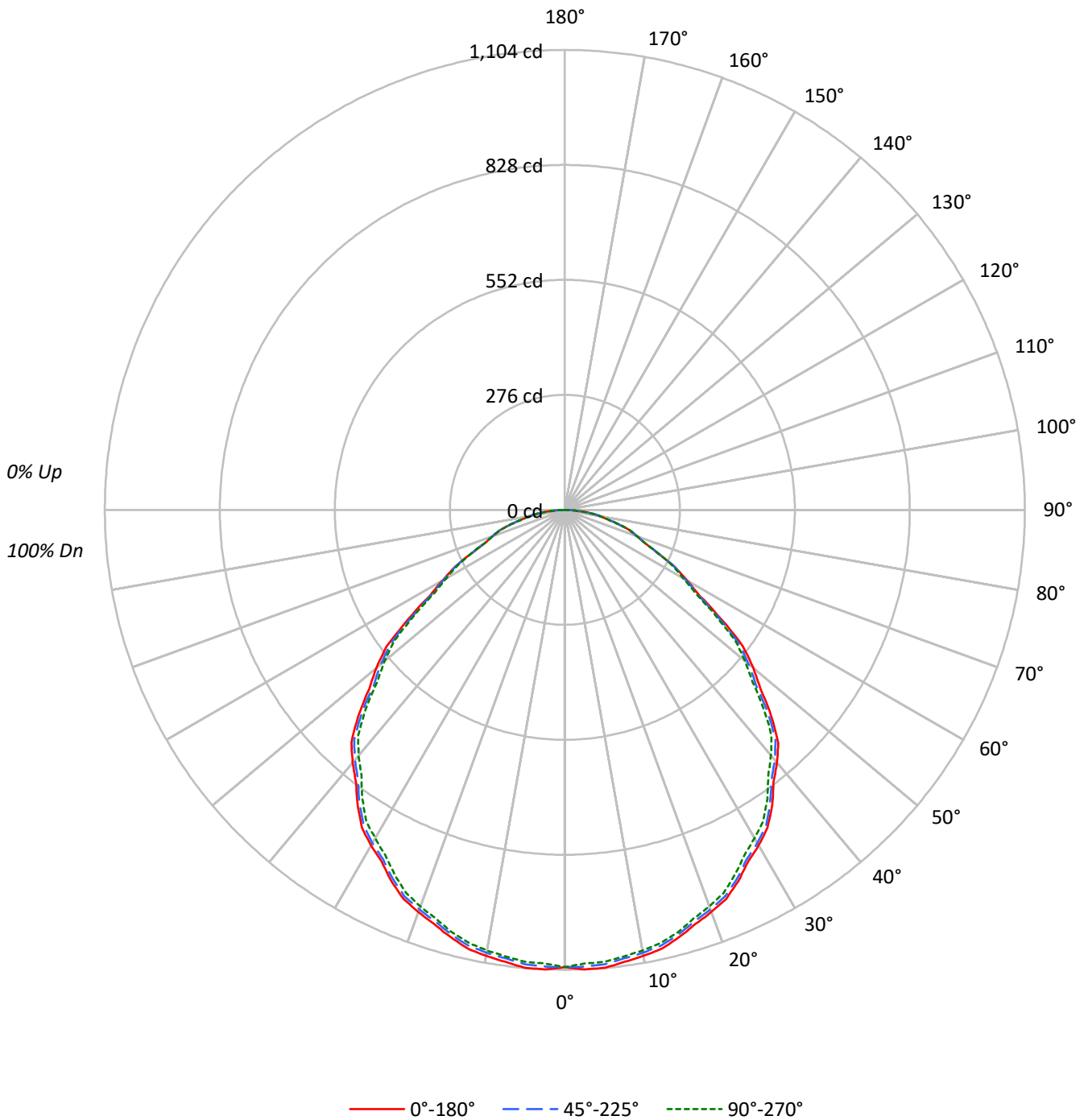
Lumens per Lamp: N/A
Luminaire Lumens: 2743.6 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Direct

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°	6751	6751	6751
5°	6811	6759	6724
10°	6790	6742	6707
15°	6760	6718	6682
20°	6726	6682	6633
25°	6679	6633	6557
30°	6607	6560	6465
35°	6509	6452	6360
40°	6361	6293	6179
45°	6101	5994	5871
50°	5645	5509	5400
55°	4926	4815	4714
60°	4152	4116	4035
65°	3590	3605	3577
70°	3298	3314	3314
75°	3168	3168	3189
80°	2979	3014	2979
85°	2399	2668	2668



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.8	3.8
10°-20°	296.9	10.8
20°-30°	447.9	16.3
30°-40°	533.6	19.5
40°-50°	526.1	19.2
50°-60°	402.1	14.7
60°-70°	248.8	9.1
70°-80°	141.3	5.2
80°-90°	43.0	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°	848.6	30.9
0°-40°	1382.2	50.4
0°-60°	2310.5	84.2
0°-90°	2743.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2743.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1098	1098	1098	1098	1098	
5°	1103	1091	1095	1091	1089	105
15°	1062	1050	1055	1051	1049	300
25°	984	972	977	967	966	453
35°	867	857	859	848	847	541
45°	701	692	689	677	675	537
55°	459	452	449	441	440	412
65°	247	245	248	246	246	250
75°	133	133	133	134	134	141
85°	34	36	38	38	38	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1097.5	1097.5	1097.5	1097.5	1097.5
2.5°	1104.3	1094.7	1097.5	1095.1	1089.9
5°	1103.2	1091.2	1094.7	1090.8	1089.0
7.5°	1094.7	1082.8	1086.3	1082.5	1081.4
10°	1087.1	1076.0	1079.5	1075.7	1073.9
12.5°	1078.8	1067.0	1071.2	1066.6	1064.8
15°	1061.6	1050.5	1055.0	1051.1	1049.3
17.5°	1042.7	1030.8	1035.3	1030.9	1028.5
20°	1027.5	1016.5	1020.9	1014.3	1013.4
22.5°	1010.9	999.8	1004.3	995.4	995.2
25°	984.1	972.0	977.4	967.0	966.1
27.5°	952.1	941.0	945.5	934.9	933.8
30°	930.2	919.1	923.6	912.2	910.3
32.5°	905.2	894.9	898.6	887.2	886.1
35°	866.8	856.7	859.3	847.9	847.0
37.5°	823.2	813.9	815.4	802.9	802.0
40°	792.2	782.9	783.7	770.4	769.5
42.5°	758.1	748.9	748.1	734.9	733.9
45°	701.4	692.2	689.1	676.8	674.9
47.5°	636.8	627.5	621.8	611.8	610.5
50°	589.9	580.6	575.7	567.1	564.3
52.5°	539.2	530.0	525.8	518.0	515.2
55°	459.4	452.0	449.0	441.4	439.6
57.5°	383.6	378.6	377.7	370.4	369.6
60°	337.5	334.7	334.6	328.0	328.0
62.5°	298.1	296.1	297.6	293.2	292.5
65°	246.7	244.9	247.7	245.8	245.8
67.5°	206.1	206.1	207.8	207.0	207.0
70°	183.4	183.4	184.3	184.3	184.3
72.5°	163.0	162.2	164.7	164.7	163.9
75°	133.3	133.3	133.3	134.2	134.2
77.5°	103.8	104.0	104.7	104.5	103.8
80°	84.1	85.1	85.1	84.1	84.1
82.5°	64.5	65.4	65.4	65.2	64.5
85°	34.0	35.9	37.8	37.8	37.8
87.5°	9.8	12.8	15.1	15.1	14.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)