

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: P563490

Luminaire Tested: **SQ4-PP3-0U-075D-830-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563490
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-0U-075D-830-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

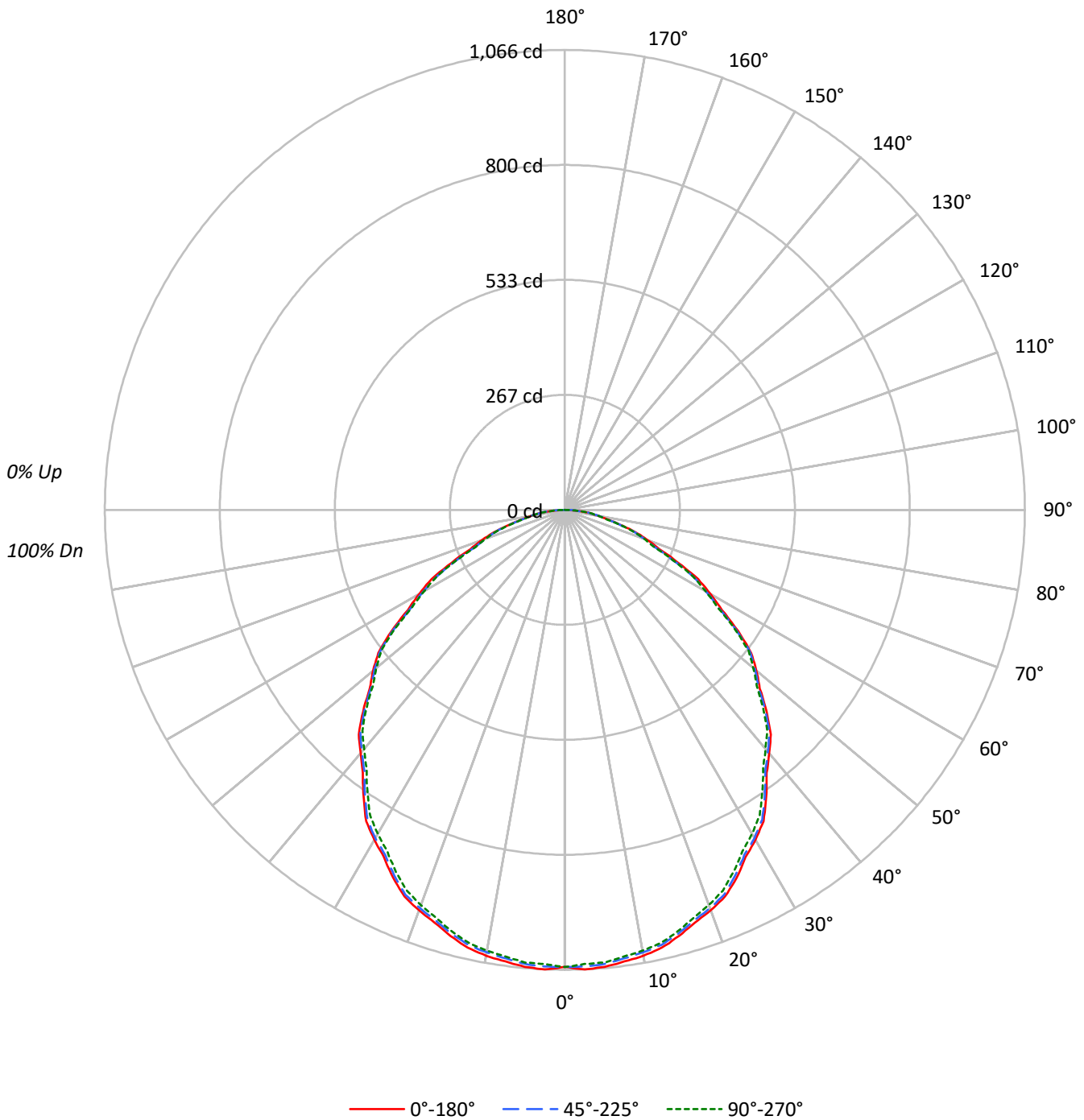
Lumens per Lamp: N/A
Luminaire Lumens: 2711.9 lumens
Efficiency: N/A
Efficacy: 113.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 24
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	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74	72
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61
4	84	72	64	57	82	71	63	57	69	62	56	66	60	56	64	59	55	53
5	77	65	56	50	75	64	56	49	62	54	49	60	53	48	58	52	48	46
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36
8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9776	9776	9776
5°	9848	9787	9753
10°	9831	9761	9718
15°	9766	9712	9660
20°	9701	9646	9574
25°	9585	9519	9425
30°	9408	9359	9240
35°	9163	9099	8985
40°	8869	8814	8713
45°	8627	8566	8481
50°	8318	8263	8184
55°	7887	7782	7723
60°	7180	6975	6940
65°	6324	6062	6041
70°	5460	5236	5236
75°	4702	4634	4570
80°	4144	4192	4096
85°	3239	3536	3536



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.2	3.7
10°-20°	286.1	10.5
20°-30°	428.5	15.8
30°-40°	502.6	18.5
40°-50°	504.2	18.6
50°-60°	430.1	15.9
60°-70°	280.5	10.3
70°-80°	140.7	5.2
80°-90°	38.9	1.4
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°	814.8	30.0
0°-40°	1317.4	48.6
0°-60°	2251.7	83.0
0°-90°	2711.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2711.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1060	1060	1060	1060	1060	
5°	1063	1053	1057	1053	1053	101
15°	1022	1012	1017	1013	1011	288
25°	942	931	935	927	926	433
35°	814	805	808	799	798	508
45°	661	657	656	650	650	509
55°	490	488	484	481	480	436
65°	290	284	278	276	277	289
75°	132	132	130	129	128	143
85°	31	33	33	33	33	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1059.6	1059.6	1059.6	1059.6	1059.6
2.5°	1066.3	1057.5	1059.6	1058.0	1053.6
5°	1063.3	1053.3	1056.8	1053.1	1053.1
7.5°	1056.0	1045.1	1048.6	1044.9	1044.7
10°	1049.4	1038.5	1041.9	1038.2	1037.3
12.5°	1039.7	1028.8	1033.0	1028.5	1028.4
15°	1022.4	1012.4	1016.8	1013.1	1011.3
17.5°	1002.9	992.0	997.3	992.1	991.4
20°	988.1	977.2	982.5	975.1	975.1
22.5°	970.2	959.3	965.4	955.7	955.7
25°	941.6	930.7	935.1	926.8	925.8
27.5°	907.6	896.9	901.5	892.0	891.9
30°	883.1	873.1	878.5	868.2	867.3
32.5°	856.4	847.1	851.0	840.8	839.9
35°	813.5	805.3	807.9	798.6	797.7
37.5°	768.3	760.0	763.0	755.0	754.6
40°	736.4	731.0	731.8	725.2	723.4
42.5°	706.7	700.5	701.3	694.8	694.4
45°	661.2	656.6	656.5	650.0	650.0
47.5°	612.9	609.4	608.4	603.0	602.9
50°	579.5	576.7	575.7	571.1	570.2
52.5°	544.5	543.3	540.1	536.2	536.0
55°	490.3	488.5	483.8	481.0	480.1
57.5°	431.4	427.8	422.5	418.5	419.2
60°	389.1	385.5	378.0	376.1	376.1
62.5°	348.2	343.9	336.3	333.8	335.2
65°	289.7	284.3	277.7	275.8	276.7
67.5°	236.6	231.7	224.5	224.5	223.8
70°	202.4	199.7	194.1	194.1	194.1
72.5°	172.0	170.7	166.6	166.6	165.9
75°	131.9	131.9	130.0	129.1	128.2
77.5°	98.8	99.2	98.2	97.3	95.6
80°	78.0	79.8	78.9	78.0	77.1
82.5°	58.7	60.5	60.4	58.7	58.5
85°	30.6	33.4	33.4	33.4	33.4
87.5°	8.2	11.1	11.9	11.9	12.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)