

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: P520120

Luminaire Tested: **SQ4-F-0U-075D-940-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P520120
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-18)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-F-0U-075D-940-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

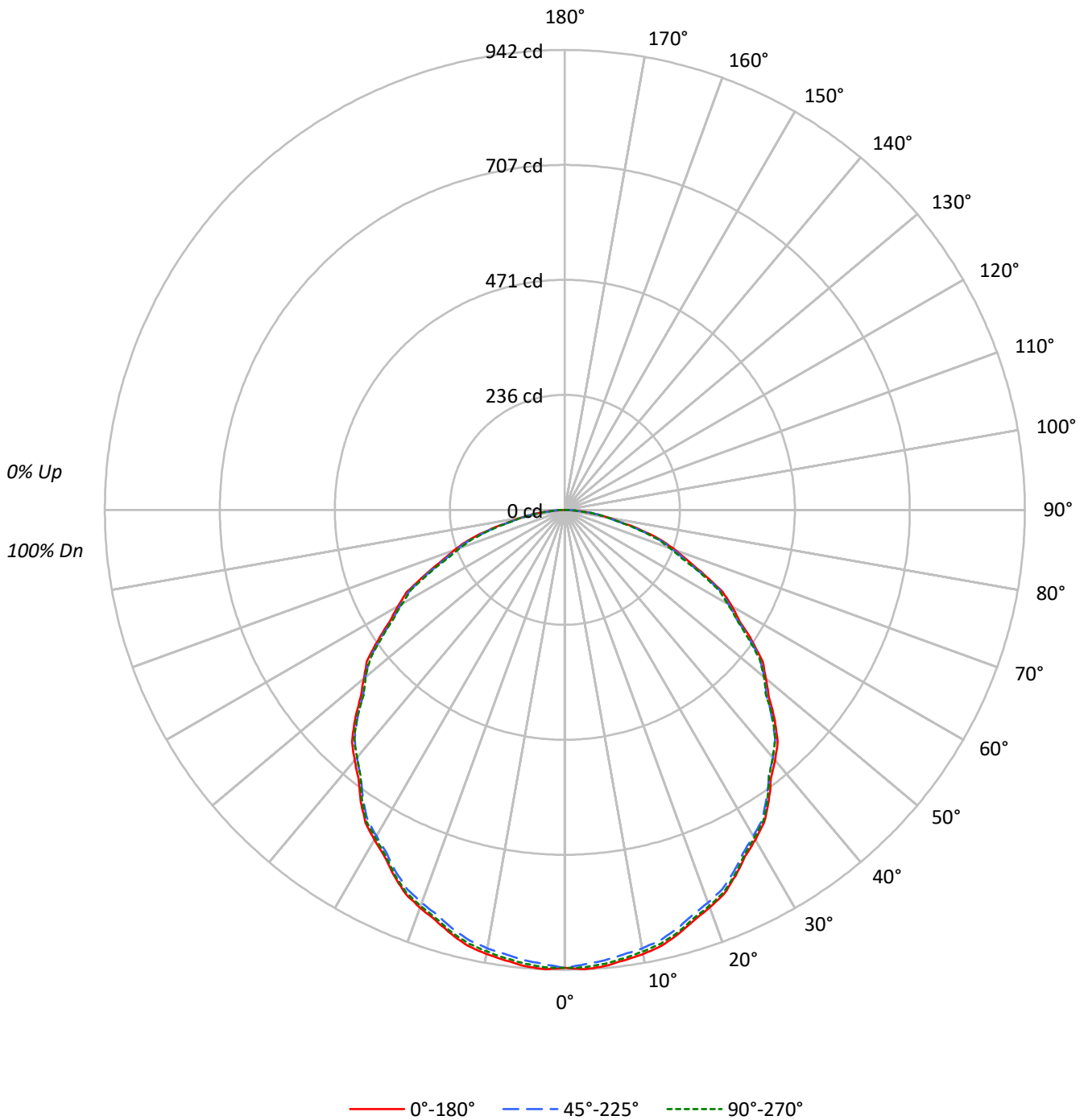
Lumens per Lamp: N/A
Luminaire Lumens: 2561.6 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

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	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	61	59
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8657	8657	8657
5°	8690	8580	8643
10°	8655	8543	8607
15°	8589	8483	8556
20°	8512	8410	8477
25°	8418	8330	8391
30°	8311	8220	8265
35°	8202	8115	8154
40°	8063	7982	7972
45°	7925	7826	7848
50°	7705	7645	7645
55°	7526	7430	7362
60°	7283	7158	7095
65°	6890	6761	6667
70°	6471	6310	6150
75°	5825	5611	5490
80°	4654	4564	4516
85°	2795	3155	3239



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.6	3.5
10°-20°	252.1	9.8
20°-30°	378.8	14.8
30°-40°	452.0	17.6
40°-50°	463.6	18.1
50°-60°	413.1	16.1
60°-70°	308.0	12.0
70°-80°	167.0	6.5
80°-90°	38.4	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°	719.5	28.1
0°-40°	1171.5	45.7
0°-60°	2048.2	80.0
0°-90°	2561.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2561.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	938	938	938	938	938	
5°	938	937	926	934	933	89
15°	899	898	888	895	896	254
25°	827	826	818	823	824	381
35°	728	726	720	721	724	455
45°	607	605	600	600	602	467
55°	468	467	462	458	458	418
65°	316	316	310	306	305	314
75°	163	160	157	155	154	172
85°	26	28	30	30	31	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	938.3	938.3	938.3	938.3	938.3
2.5°	941.7	939.8	931.5	938.3	937.6
5°	938.3	936.6	926.4	934.1	933.2
7.5°	930.6	928.9	918.7	926.4	926.2
10°	923.8	921.4	911.9	919.6	918.7
12.5°	915.0	912.5	903.1	910.7	909.9
15°	899.2	897.6	888.1	895.0	895.8
17.5°	881.1	878.0	869.6	876.2	877.1
20°	866.9	864.4	856.6	862.6	863.4
22.5°	851.9	849.4	841.7	847.7	848.5
25°	826.9	826.0	818.3	822.7	824.3
27.5°	799.8	797.5	791.3	794.6	796.3
30°	780.1	778.4	771.6	774.2	775.8
32.5°	759.7	758.7	752.5	753.8	756.2
35°	728.2	726.5	720.5	720.6	724.0
37.5°	693.4	691.5	686.5	685.7	687.1
40°	669.5	667.0	662.7	661.9	661.9
42.5°	645.1	643.2	637.5	636.0	638.1
45°	607.4	604.9	599.8	599.8	601.5
47.5°	566.7	565.7	559.7	557.1	557.8
50°	536.8	538.5	532.6	529.2	532.6
52.5°	510.9	509.9	504.6	501.3	502.6
55°	467.9	467.0	461.9	457.7	457.7
57.5°	424.6	422.6	417.1	414.0	416.6
60°	394.7	393.9	387.9	382.0	384.5
62.5°	364.8	363.3	357.3	353.4	355.2
65°	315.6	315.6	309.7	306.2	305.4
67.5°	272.6	268.6	265.2	261.2	260.0
70°	239.9	236.6	233.9	230.5	228.0
72.5°	207.9	206.0	201.9	198.6	198.1
75°	163.4	160.0	157.4	154.8	154.0
77.5°	116.2	115.5	113.2	111.8	112.3
80°	87.6	87.6	85.9	85.9	85.0
82.5°	61.8	62.4	62.1	60.7	60.6
85°	26.4	28.0	29.8	29.8	30.6
87.5°	4.7	8.1	7.5	7.5	7.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)