

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: P520103

Luminaire Tested: **SQ4-F-0U-075D-835-1D-UNV-STD-W-12**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P520103
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-835-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

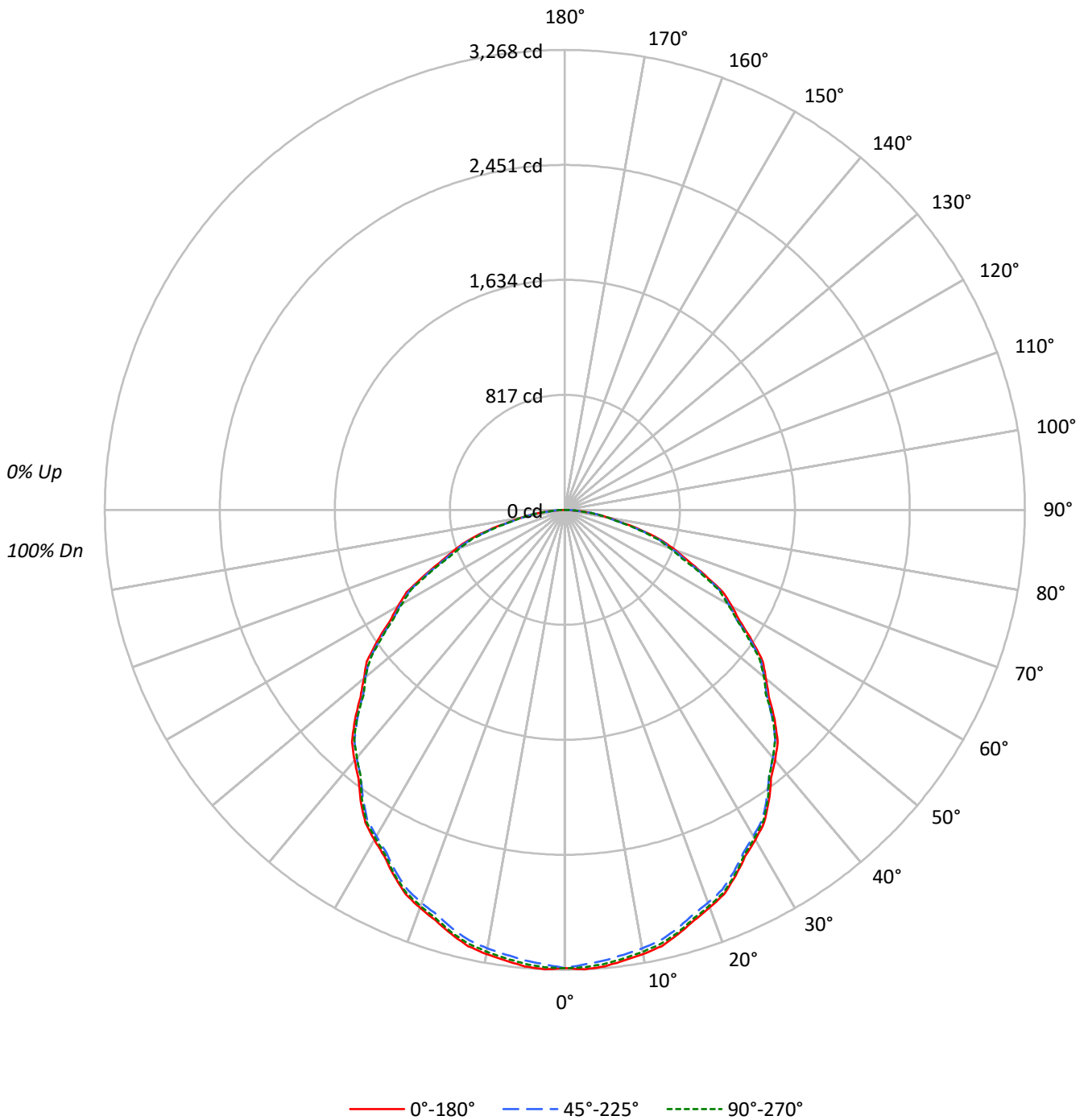
Lumens per Lamp: N/A
Luminaire Lumens: 8889.3 lumens
Efficiency: N/A
Efficacy: 116.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Direct

Input Watts (W): 76.5
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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100	
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84			84	
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70			70	
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	61	59			59	
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51			51	
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44			44	
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38			38	
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	36	34			34	
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30			30	
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27			27	
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25			25	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10014	10014	10014
5°	10053	9925	9998
10°	10012	9883	9957
15°	9935	9813	9897
20°	9845	9729	9807
25°	9737	9637	9707
30°	9614	9509	9561
35°	9488	9388	9432
40°	9328	9233	9221
45°	9168	9052	9078
50°	8913	8842	8842
55°	8706	8595	8516
60°	8425	8280	8208
65°	7971	7820	7712
70°	7486	7300	7114
75°	6735	6490	6349
80°	5386	5281	5228
85°	3229	3645	3751



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	307.4	3.5
10°-20°	875.0	9.8
20°-30°	1314.6	14.8
30°-40°	1568.6	17.6
40°-50°	1608.7	18.1
50°-60°	1433.4	16.1
60°-70°	1068.8	12.0
70°-80°	579.6	6.5
80°-90°	133.2	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°	2497.0	28.1
0°-40°	4065.6	45.7
0°-60°	7107.7	80.0
0°-90°	8889.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8889.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3256	3256	3256	3256	3256	
5°	3256	3250	3215	3241	3238	309
15°	3120	3115	3082	3106	3109	880
25°	2870	2867	2840	2855	2861	1322
35°	2527	2521	2500	2501	2512	1579
45°	2108	2099	2081	2081	2087	1622
55°	1624	1621	1603	1588	1588	1450
65°	1095	1095	1075	1063	1060	1090
75°	567	555	546	537	534	595
85°	92	97	103	103	106	129
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3256.3	3256.3	3256.3	3256.3	3256.3
2.5°	3268.1	3261.2	3232.6	3256.3	3253.9
5°	3256.3	3250.5	3214.9	3241.4	3238.5
7.5°	3229.7	3223.4	3188.4	3214.9	3214.3
10°	3206.1	3197.4	3164.7	3191.2	3188.4
12.5°	3175.4	3166.7	3134.0	3160.5	3157.7
15°	3120.5	3114.7	3082.1	3105.8	3108.6
17.5°	3057.9	3046.9	3017.7	3040.8	3043.7
20°	3008.3	2999.6	2972.8	2993.6	2996.5
22.5°	2956.3	2947.7	2920.9	2941.7	2944.5
25°	2869.5	2866.7	2840.0	2854.9	2860.7
27.5°	2775.6	2767.6	2746.1	2757.4	2763.2
30°	2707.2	2701.3	2677.6	2686.6	2692.4
32.5°	2636.3	2632.9	2611.5	2615.8	2623.9
35°	2527.1	2521.3	2500.5	2500.8	2512.3
37.5°	2406.0	2399.6	2382.4	2379.6	2384.2
40°	2323.4	2314.7	2299.8	2296.8	2296.8
42.5°	2238.3	2231.9	2212.4	2207.2	2214.1
45°	2107.9	2099.2	2081.3	2081.4	2087.2
47.5°	1966.7	1963.3	1942.5	1933.2	1935.5
50°	1862.8	1868.6	1848.1	1836.6	1848.1
52.5°	1773.1	1769.6	1751.2	1739.5	1744.1
55°	1623.7	1620.8	1603.0	1588.3	1588.3
57.5°	1473.7	1466.3	1447.8	1436.7	1445.4
60°	1369.8	1367.0	1346.2	1325.7	1334.4
62.5°	1265.9	1260.7	1239.9	1226.4	1232.8
65°	1095.3	1095.3	1074.6	1062.7	1059.8
67.5°	945.9	932.0	920.5	906.2	902.2
70°	832.5	821.0	811.9	799.8	791.2
72.5°	721.5	714.6	700.8	689.0	687.3
75°	566.8	555.3	546.2	537.2	534.3
77.5°	403.3	401.0	392.6	387.9	389.7
80°	304.1	304.1	298.2	298.1	295.2
82.5°	214.3	216.6	215.5	210.8	210.2
85°	91.5	97.3	103.3	103.4	106.3
87.5°	16.5	28.0	26.0	26.0	26.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)