

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: P519870

Luminaire Tested: **SQ4-F-025U-125D-840-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519870
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G3-1910-536-20)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-F-025U-125D-840-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

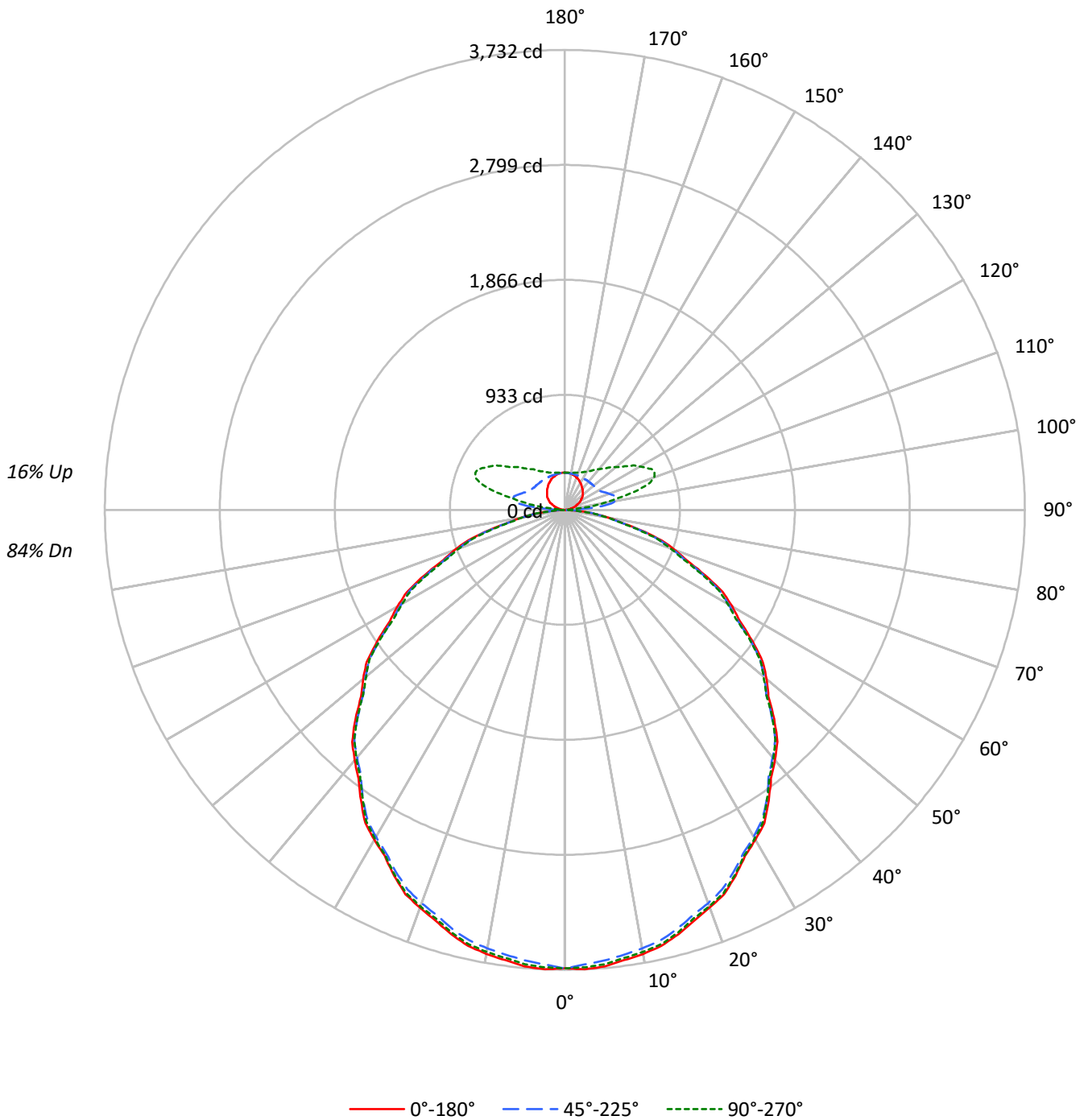
Lumens per Lamp: N/A
Luminaire Lumens: 12102.7 lumens
Efficiency: N/A
Efficacy: 123.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 98.1
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																		
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	50	30	10	50	30	10	0																			
RCR																																														
0	115	115	115	115	111	111	111	111	102	102	102	94	94	94	87	87	87	84																												
1	105	101	97	93	101	97	93	90	90	87	84	83	81	79	77	75	74	71																												
2	96	88	81	76	92	85	79	74	79	74	70	73	69	66	68	65	62	59																												
3	87	77	69	63	84	74	67	62	69	63	58	64	60	55	60	56	53	50																												
4	80	68	60	53	77	66	58	52	62	55	50	57	52	47	53	49	45	43																												
5	74	61	52	46	70	59	51	45	55	48	43	52	46	41	48	43	39	37																												
6	68	55	46	40	65	53	45	39	50	43	38	47	41	36	44	39	35	32																												
7	63	50	41	35	60	48	40	35	45	38	33	42	36	32	40	35	31	28																												
8	58	45	37	31	56	44	36	31	41	35	30	39	33	29	37	31	27	25																												
9	55	42	34	28	52	40	33	28	38	31	27	36	30	26	34	29	25	23																												
10	51	38	31	25	49	37	30	25	35	29	24	33	27	23	31	26	23	21																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17162	17162	17162
5°	17217	17000	17142
10°	17139	16928	17062
15°	17023	16819	16956
20°	16866	16675	16806
25°	16674	16497	16633
30°	16468	16326	16414
35°	16234	16096	16107
40°	15967	15794	15844
45°	15668	15494	15521
50°	15326	15149	15106
55°	14936	14721	14689
60°	14451	14130	14054
65°	13699	13410	13231
70°	12758	12428	12260
75°	11350	11093	10765
80°	9245	8974	8921
85°	5526	6288	6288



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	351.0	2.9
10°-20°	999.7	8.3
20°-30°	1501.9	12.4
30°-40°	1792.1	14.8
40°-50°	1836.9	15.2
50°-60°	1637.3	13.5
60°-70°	1218.9	10.1
70°-80°	660.3	5.5
80°-90°	153.2	1.3
90°-100°	146.7	1.2
100°-110°	385.7	3.2
110°-120°	400.0	3.3
120°-130°	320.8	2.7
130°-140°	251.7	2.1
140°-150°	193.2	1.6
150°-160°	139.2	1.1
160°-170°	85.1	0.7
170°-180°	28.8	0.2
0°-30°	2852.6	23.6
0°-40°	4644.7	38.4
0°-60°	8119.0	67.1
0°-90°	10151.4	83.9
90°-120°	932.4	7.7
90°-150°	1698.2	14.0
90°-180°	1951.0	16.1
0°-180°	12102.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3720	3720	3720	3720	3720	
5°	3718	3712	3671	3704	3702	353
15°	3564	3556	3522	3552	3550	1005
25°	3276	3270	3241	3260	3268	1509
35°	2883	2881	2858	2858	2860	1803
45°	2402	2396	2375	2371	2379	1851
55°	1857	1851	1830	1816	1826	1659
65°	1255	1247	1228	1220	1212	1243
75°	637	637	622	610	604	676
85°	104	118	119	121	119	144
90°	2	6	16	8	8	4
95°	19	76	253	130	89	22
105°	70	105	426	647	604	74
115°	124	150	342	681	778	122
125°	172	192	311	525	620	152
135°	205	225	301	424	480	158
145°	237	252	297	362	390	149
155°	268	276	297	326	336	123
165°	289	293	297	309	313	82
175°	301	301	299	303	303	29
180°	301	301	301	301	301	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3720.2	3720.2	3720.2	3720.2	3720.2
2.5°	3731.7	3725.3	3692.3	3720.1	3715.3
5°	3718.1	3712.1	3671.1	3703.8	3701.8
7.5°	3686.6	3679.0	3641.6	3672.2	3668.6
10°	3658.8	3652.7	3613.7	3644.4	3642.4
12.5°	3624.3	3618.4	3579.3	3610.0	3609.6
15°	3564.5	3556.5	3521.6	3552.3	3550.3
17.5°	3492.9	3483.7	3449.1	3473.3	3477.4
20°	3435.6	3429.5	3396.7	3419.3	3423.3
22.5°	3376.6	3369.0	3334.5	3360.3	3364.4
25°	3275.9	3269.9	3241.1	3259.7	3267.7
27.5°	3165.3	3165.3	3138.7	3151.9	3156.7
30°	3091.6	3091.6	3065.0	3073.4	3081.4
32.5°	3013.0	3006.6	2981.5	2988.2	2996.2
35°	2882.7	2880.8	2858.2	2858.2	2860.2
37.5°	2748.1	2742.5	2717.7	2719.6	2729.2
40°	2651.5	2647.4	2622.8	2623.0	2631.0
42.5°	2553.2	2549.1	2527.7	2524.6	2527.7
45°	2401.6	2395.7	2375.0	2371.1	2379.1
47.5°	2240.3	2241.9	2217.4	2211.7	2216.2
50°	2135.5	2135.5	2110.9	2098.8	2104.8
52.5°	2025.7	2022.6	1997.8	1984.3	1998.3
55°	1857.1	1851.0	1830.4	1816.3	1826.4
57.5°	1684.3	1675.0	1654.4	1638.9	1644.5
60°	1566.3	1552.3	1531.5	1519.3	1523.3
62.5°	1443.5	1435.9	1413.6	1394.9	1403.7
65°	1255.0	1247.0	1228.5	1220.1	1212.1
67.5°	1070.4	1065.2	1044.2	1035.5	1030.2
70°	945.9	935.9	921.4	911.1	909.0
72.5°	824.7	813.0	798.4	789.7	784.6
75°	636.8	636.8	622.4	610.0	604.0
77.5°	457.8	459.4	447.6	443.4	440.6
80°	348.0	348.0	337.8	333.8	335.8
82.5°	243.2	248.0	244.5	238.7	235.8
85°	104.4	118.5	118.8	120.7	118.8
87.5°	18.4	30.4	34.4	29.4	26.3
90°	1.9	5.7	15.5	7.7	7.7
92.5°	8.1	39.1	86.4	38.3	24.7
95°	19.3	75.9	252.8	130.3	88.8
97.5°	33.6	83.4	378.2	300.8	221.6
100°	44.4	89.7	416.9	422.4	328.1
102.5°	53.6	95.9	427.7	526.2	445.4
105°	69.5	105.3	426.5	647.4	604.0
107.5°	85.6	118.9	402.1	710.4	721.0
110°	96.4	126.7	382.1	726.6	772.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	107.3	136.0	363.6	716.4	785.8
115°	123.5	149.9	341.5	681.4	777.7
117.5°	139.4	163.5	326.5	633.1	739.9
120°	148.6	171.2	320.3	600.6	704.4
122.5°	157.8	180.5	315.7	568.2	670.4
125°	171.8	192.5	310.7	525.1	619.5
127.5°	183.0	204.1	306.4	490.5	570.1
130°	189.2	211.7	304.9	468.7	542.3
132.5°	195.3	217.9	303.4	450.0	516.1
135°	204.6	225.3	301.1	423.9	480.5
137.5°	214.2	234.6	300.6	404.4	450.8
140°	222.0	240.8	299.1	388.8	432.2
142.5°	228.1	245.5	299.1	377.9	415.3
145°	237.3	252.4	297.2	361.5	389.8
147.5°	246.6	261.3	297.2	347.9	371.3
150°	252.8	266.0	297.2	340.1	358.9
152.5°	258.9	269.2	297.2	333.8	348.1
155°	268.2	275.8	297.2	326.3	335.8
157.5°	275.2	282.4	297.2	319.7	326.5
160°	279.8	285.5	297.2	316.6	320.3
162.5°	284.5	288.6	297.2	313.5	317.2
165°	289.4	293.3	297.2	308.8	312.7
167.5°	294.1	296.0	299.1	306.8	308.4
170°	297.2	299.1	299.1	306.8	306.8
172.5°	298.7	299.1	299.1	305.3	303.8
175°	301.1	301.1	299.1	303.0	303.0
177.5°	301.1	301.1	299.5	302.5	301.1
180°	301.1	301.1	301.1	301.1	301.1

(END OF REPORT)