

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: P519238

Luminaire Tested: **SQ4-WB-075U-125D-830-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519238
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G2-2009-966-13)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-WB-075U-125D-830-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

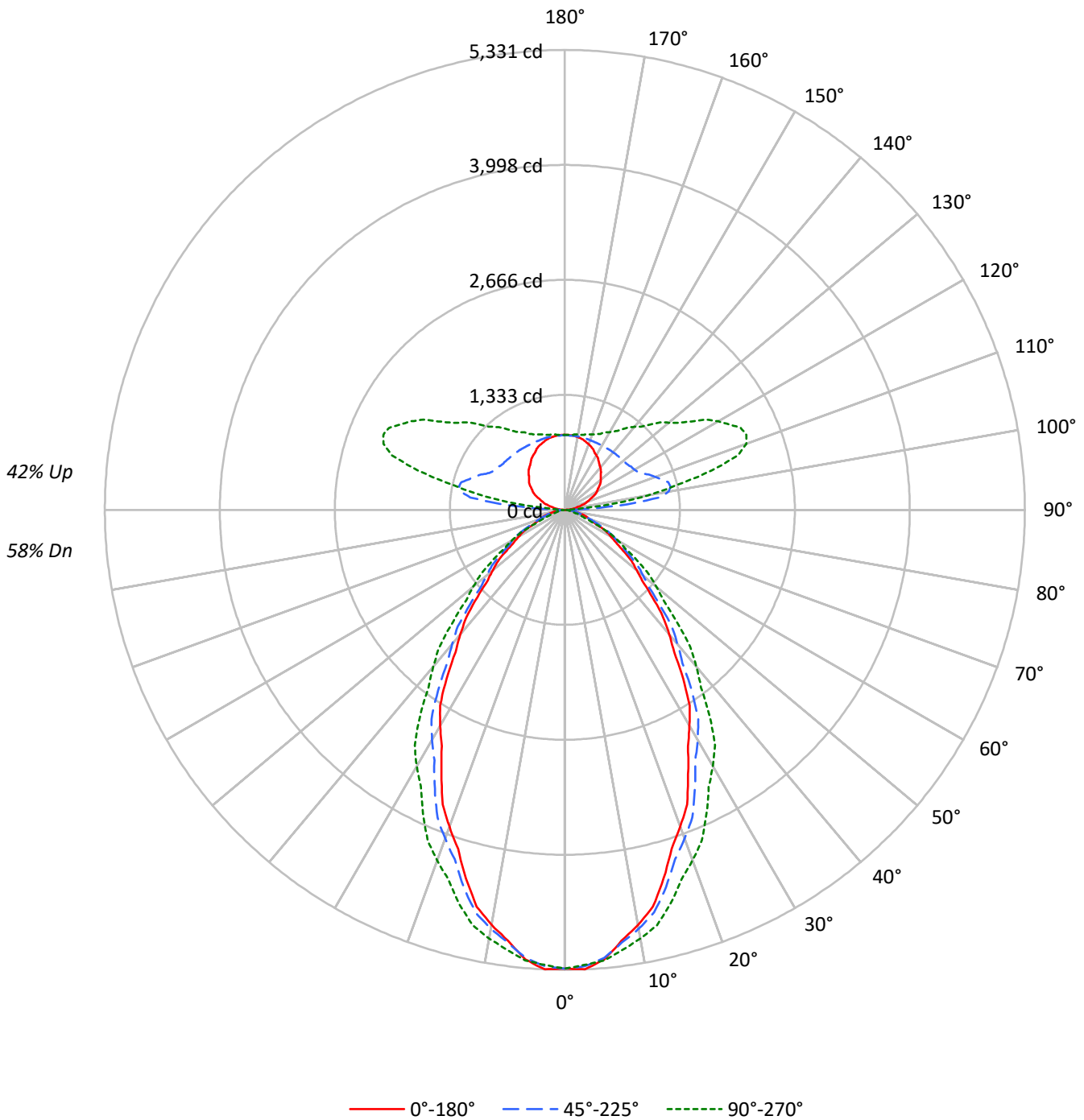
Lumens per Lamp: N/A
Luminaire Lumens: 13403.1 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 127.7
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	109	109	109	109	102	102	102	102	88	88	88	75	75	75	63	63	63	58
1	101	97	94	90	94	91	88	85	79	77	75	68	66	65	58	57	56	51
2	93	86	81	76	87	81	76	72	71	67	64	61	59	57	53	51	49	45
3	86	77	70	65	80	72	67	62	64	59	56	56	52	50	48	46	44	40
4	79	69	62	57	74	65	59	54	58	53	49	51	47	44	44	41	39	36
5	73	63	55	50	68	59	52	47	52	47	43	46	42	39	40	37	35	32
6	68	57	49	44	64	54	47	42	48	42	38	42	38	35	37	34	31	29
7	63	52	44	39	59	49	42	38	44	39	35	39	35	32	34	31	29	26
8	59	48	40	35	55	45	39	34	40	35	31	36	32	29	32	29	26	24
9	55	44	37	32	52	42	35	31	37	32	29	34	29	26	30	26	24	22
10	52	41	34	29	49	39	32	28	35	30	26	31	27	24	28	25	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	24532	24532	24532
5°	24226	24140	24280
10°	22889	23096	23632
15°	21130	21620	22589
20°	19188	19910	21227
25°	17210	18148	19776
30°	15388	16395	18272
35°	13457	14429	16492
40°	11326	12225	14277
45°	9347	10154	11920
50°	7804	8507	9930
55°	6625	7300	8201
60°	5662	6329	6545
65°	4508	5324	4229
70°	3998	4154	2580
75°	3702	3369	1581
80°	3408	3100	1363
85°	3086	2842	1112



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	487.8	3.6
10°-20°	1268.7	9.5
20°-30°	1643.4	12.3
30°-40°	1609.3	12.0
40°-50°	1231.8	9.2
50°-60°	820.8	6.1
60°-70°	447.9	3.3
70°-80°	186.6	1.4
80°-90°	55.1	0.4
90°-100°	409.2	3.1
100°-110°	1125.7	8.4
110°-120°	1161.9	8.7
120°-130°	931.0	6.9
130°-140°	731.2	5.5
140°-150°	560.3	4.2
150°-160°	402.9	3.0
160°-170°	246.4	1.8
170°-180°	83.0	0.6
0°-30°	3399.9	25.4
0°-40°	5009.2	37.4
0°-60°	7061.8	52.7
0°-90°	7751.5	57.8
90°-120°	2696.8	20.1
90°-150°	4919.3	36.7
90°-180°	5652.0	42.2
0°-180°	13403.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5318	5318	5318	5318	5318	
5°	5232	5179	5213	5225	5243	487
15°	4424	4408	4527	4650	4730	1235
25°	3381	3390	3566	3721	3885	1555
35°	2390	2401	2562	2735	2928	1486
45°	1433	1460	1556	1674	1827	1117
55°	824	858	908	942	1020	747
65°	413	447	488	426	387	429
75°	208	208	189	130	89	222
85°	58	58	54	35	21	63
90°	2	7	13	17	17	7
95°	61	223	724	309	198	64
105°	201	310	1240	1889	1763	212
115°	356	434	995	1981	2248	352
125°	491	560	903	1527	1789	438
135°	592	658	877	1235	1397	457
145°	685	732	864	1052	1133	429
155°	775	800	858	946	973	356
165°	838	849	862	897	903	236
175°	868	869	864	875	873	82
180°	868	868	868	868	868	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5318.0	5318.0	5318.0	5318.0	5318.0
2.5°	5331.0	5283.6	5295.6	5295.2	5280.6
5°	5231.6	5179.2	5213.0	5225.1	5243.3
7.5°	5037.5	4997.8	5059.4	5105.1	5142.0
10°	4886.3	4852.1	4930.6	4997.0	5045.0
12.5°	4710.8	4682.1	4779.4	4868.6	4931.1
15°	4424.3	4408.3	4526.9	4650.1	4729.9
17.5°	4117.6	4109.9	4246.0	4389.7	4491.9
20°	3908.6	3906.3	4055.6	4205.3	4323.9
22.5°	3697.6	3702.6	3859.6	4015.2	4150.3
25°	3381.2	3390.3	3565.5	3721.0	3885.2
27.5°	3088.6	3092.7	3273.9	3437.9	3613.1
30°	2888.8	2900.2	3077.8	3247.7	3430.2
32.5°	2689.1	2702.3	2876.2	3051.7	3237.9
35°	2389.5	2400.9	2562.1	2734.6	2928.5
37.5°	2080.5	2096.0	2239.2	2402.2	2593.0
40°	1880.8	1903.6	2030.1	2183.7	2370.8
42.5°	1688.5	1716.8	1834.1	1979.8	2148.7
45°	1432.8	1460.1	1556.4	1674.2	1827.1
47.5°	1212.5	1244.0	1317.9	1419.4	1549.9
50°	1087.4	1117.1	1185.4	1260.5	1383.7
52.5°	977.3	1006.9	1067.8	1125.7	1230.7
55°	823.7	857.9	907.7	942.2	1019.7
57.5°	697.7	730.6	770.0	785.6	832.6
60°	613.7	650.2	686.0	684.3	709.4
62.5°	537.2	568.2	603.9	579.2	580.6
65°	413.0	447.2	487.7	426.1	387.4
67.5°	333.7	341.0	382.7	297.2	251.1
70°	296.4	296.4	308.0	230.1	191.3
72.5°	260.9	260.9	250.1	187.2	146.5
75°	207.7	207.7	189.0	129.7	88.7
77.5°	160.1	158.3	144.7	96.8	64.4
80°	128.3	128.3	116.7	76.4	51.3
82.5°	100.3	100.3	90.5	59.7	38.3
85°	58.3	58.3	53.7	34.7	21.0
87.5°	20.9	22.0	21.3	14.5	12.7
90°	1.8	7.3	12.9	16.6	16.6
92.5°	25.5	108.9	188.6	72.4	59.4
95°	60.9	223.3	723.6	309.4	197.5
97.5°	99.3	247.7	1104.2	850.8	600.3
100°	127.4	262.7	1223.8	1235.2	1007.8
102.5°	153.9	280.6	1254.8	1532.4	1323.8
105°	201.2	309.5	1240.4	1889.1	1762.7
107.5°	246.2	345.1	1169.9	2063.7	2101.3
110°	278.7	369.0	1116.7	2107.2	2237.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	308.3	395.6	1063.6	2079.2	2277.0
115°	356.2	433.8	994.9	1981.1	2248.2
117.5°	402.0	473.5	951.3	1843.4	2145.6
120°	430.1	498.7	932.1	1740.3	2052.5
122.5°	455.2	523.8	918.8	1649.9	1946.2
125°	491.0	559.6	902.6	1526.9	1788.6
127.5°	524.9	590.3	891.9	1424.3	1653.8
130°	542.7	609.4	886.0	1363.3	1572.6
132.5°	563.3	630.1	881.6	1309.7	1498.8
135°	592.5	657.5	876.8	1234.8	1397.3
137.5°	619.8	680.1	872.7	1174.4	1308.3
140°	640.5	696.4	871.2	1134.2	1255.2
142.5°	658.2	709.8	868.3	1098.4	1202.0
145°	684.8	731.7	863.8	1052.1	1133.3
147.5°	713.2	753.6	861.6	1011.1	1076.1
150°	730.9	767.0	860.1	988.7	1039.2
152.5°	747.2	780.4	858.7	969.3	1011.1
155°	775.2	800.5	858.3	945.7	972.7
157.5°	795.5	816.1	858.3	926.3	945.1
160°	810.3	826.6	858.3	915.9	930.3
162.5°	822.1	835.5	859.8	906.9	918.5
165°	838.0	848.8	862.0	897.2	902.6
167.5°	849.1	857.4	863.8	889.0	890.4
170°	856.5	861.9	863.8	886.0	886.0
172.5°	862.4	864.9	863.8	881.5	880.1
175°	867.5	869.3	863.8	874.9	873.1
177.5°	869.0	869.0	863.1	871.9	869.0
180°	867.5	867.5	867.5	867.5	867.5

(END OF REPORT)