

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: P519286

Luminaire Tested: **SQ4-WB-0U-075D-830-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519286
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (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-0U-075D-830-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

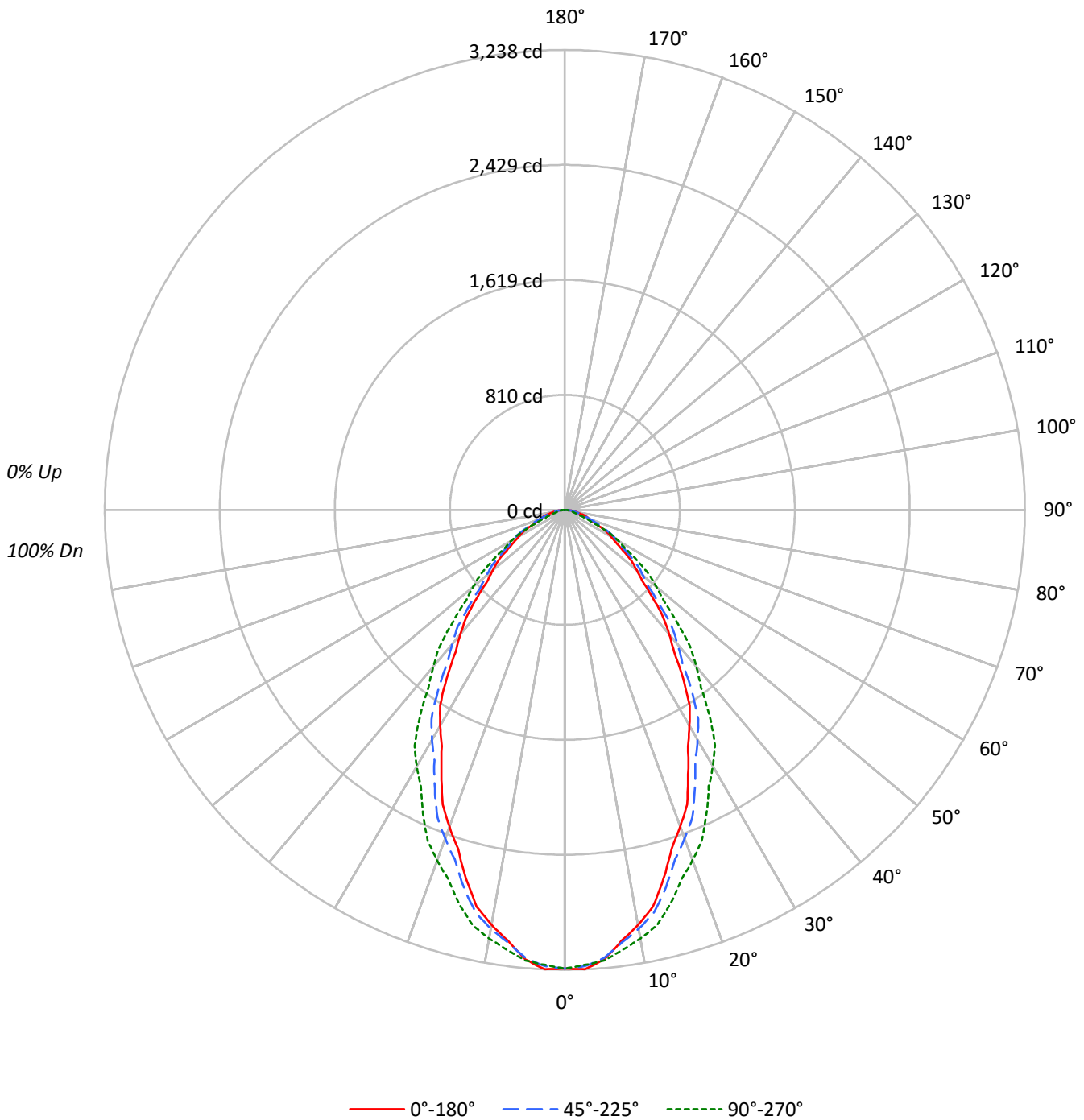
Lumens per Lamp: N/A
Luminaire Lumens: 4707.0 lumens
Efficiency: N/A
Efficacy: 86.5 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 54.4
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



TEST NUMBER: P519286
CATALOG NUMBER: SQ4-WB-0U-075D-830-1D-UNV-STD-W-8

Luminous Intensity Polar Plot





TEST NUMBER: P519286

CATALOG NUMBER: SQ4-WB-OU-075D-830-1D-UNV-STD-W-8

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				
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89				
2	103	97	91	87	101	95	90	86	92	87	84	88	85	82	85	83	80	78				
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69				
4	89	79	72	66	87	78	71	66	76	70	65	74	68	64	71	67	64	62				
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	55				
6	78	66	59	53	76	65	58	53	64	57	53	62	56	52	61	56	52	50				
7	73	61	53	48	71	60	53	48	59	52	48	58	52	47	56	51	47	45				
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	41				
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38				
10	61	49	42	37	60	48	42	37	48	41	37	47	41	37	46	41	37	35				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14901	14901	14901
5°	14716	14663	14748
10°	13903	14029	14354
15°	12835	13132	13721
20°	11655	12093	12893
25°	10454	11024	12012
30°	9347	9958	11099
35°	8174	8764	10017
40°	6880	7426	8672
45°	5678	6168	7240
50°	4740	5167	6032
55°	4024	4435	4982
60°	3440	3845	3976
65°	2739	3233	2568
70°	2428	2524	1567
75°	2248	2046	961
80°	2072	1884	829
85°	1874	1725	677



TEST NUMBER: P519286

CATALOG NUMBER: SQ4-WB-OU-075D-830-1D-UNV-STD-W-8

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	296.3	6.3
10°-20°	770.7	16.4
20°-30°	998.2	21.2
30°-40°	977.5	20.8
40°-50°	748.2	15.9
50°-60°	498.6	10.6
60°-70°	272.1	5.8
70°-80°	113.4	2.4
80°-90°	32.1	0.7
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°	2065.2	43.9
0°-40°	3042.7	64.6
0°-60°	4289.5	91.1
0°-90°	4707.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4707.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3230	3230	3230	3230	3230	
5°	3178	3146	3166	3174	3185	296
15°	2687	2678	2750	2824	2873	750
25°	2054	2059	2166	2260	2360	944
35°	1451	1458	1556	1661	1779	902
45°	870	887	945	1017	1110	679
55°	500	521	551	572	619	454
65°	251	272	296	259	235	261
75°	126	126	115	79	54	135
85°	35	35	33	21	13	40
90°	0	0	0	0	0	



TEST NUMBER: P519286

CATALOG NUMBER: SQ4-WB-OU-075D-830-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3230.2	3230.2	3230.2	3230.2	3230.2
2.5°	3238.2	3209.3	3216.6	3216.4	3207.5
5°	3177.8	3145.9	3166.4	3173.8	3184.9
7.5°	3059.8	3035.7	3073.2	3100.9	3123.3
10°	2968.0	2947.2	2994.9	3035.3	3064.4
12.5°	2861.4	2844.0	2903.1	2957.2	2995.2
15°	2687.4	2677.7	2749.7	2824.5	2873.0
17.5°	2501.1	2496.4	2579.1	2666.4	2728.5
20°	2374.1	2372.7	2463.4	2554.3	2626.4
22.5°	2246.0	2249.0	2344.4	2438.9	2521.0
25°	2053.8	2059.3	2165.8	2260.2	2359.9
27.5°	1876.0	1878.5	1988.6	2088.2	2194.7
30°	1754.7	1761.6	1869.5	1972.7	2083.6
32.5°	1633.4	1641.4	1747.1	1853.7	1966.8
35°	1451.4	1458.3	1556.3	1661.0	1778.8
37.5°	1263.7	1273.2	1360.1	1459.1	1575.0
40°	1142.4	1156.3	1233.1	1326.4	1440.1
42.5°	1025.6	1042.8	1114.1	1202.6	1305.1
45°	870.3	886.9	945.4	1017.0	1109.8
47.5°	736.5	755.6	800.5	862.2	941.4
50°	660.5	678.5	720.0	765.7	840.5
52.5°	593.6	611.6	648.6	683.8	747.5
55°	500.3	521.1	551.4	572.3	619.4
57.5°	423.8	443.8	467.7	477.2	505.7
60°	372.8	394.9	416.7	415.6	430.9
62.5°	326.3	345.1	366.8	351.8	352.6
65°	250.9	271.7	296.2	258.8	235.3
67.5°	202.7	207.1	232.5	180.5	152.5
70°	180.0	180.0	187.1	139.8	116.2
72.5°	158.5	158.5	151.9	113.7	89.0
75°	126.1	126.1	114.8	78.8	53.9
77.5°	97.2	96.1	87.9	58.8	39.1
80°	78.0	78.0	70.9	46.4	31.2
82.5°	60.9	60.9	55.0	36.3	23.2
85°	35.4	35.4	32.6	21.1	12.8
87.5°	12.5	12.5	11.3	6.8	5.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)