

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: P519308

Luminaire Tested: **SQ4-WB-0U-100D-830-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519308
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-100D-830-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1000 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

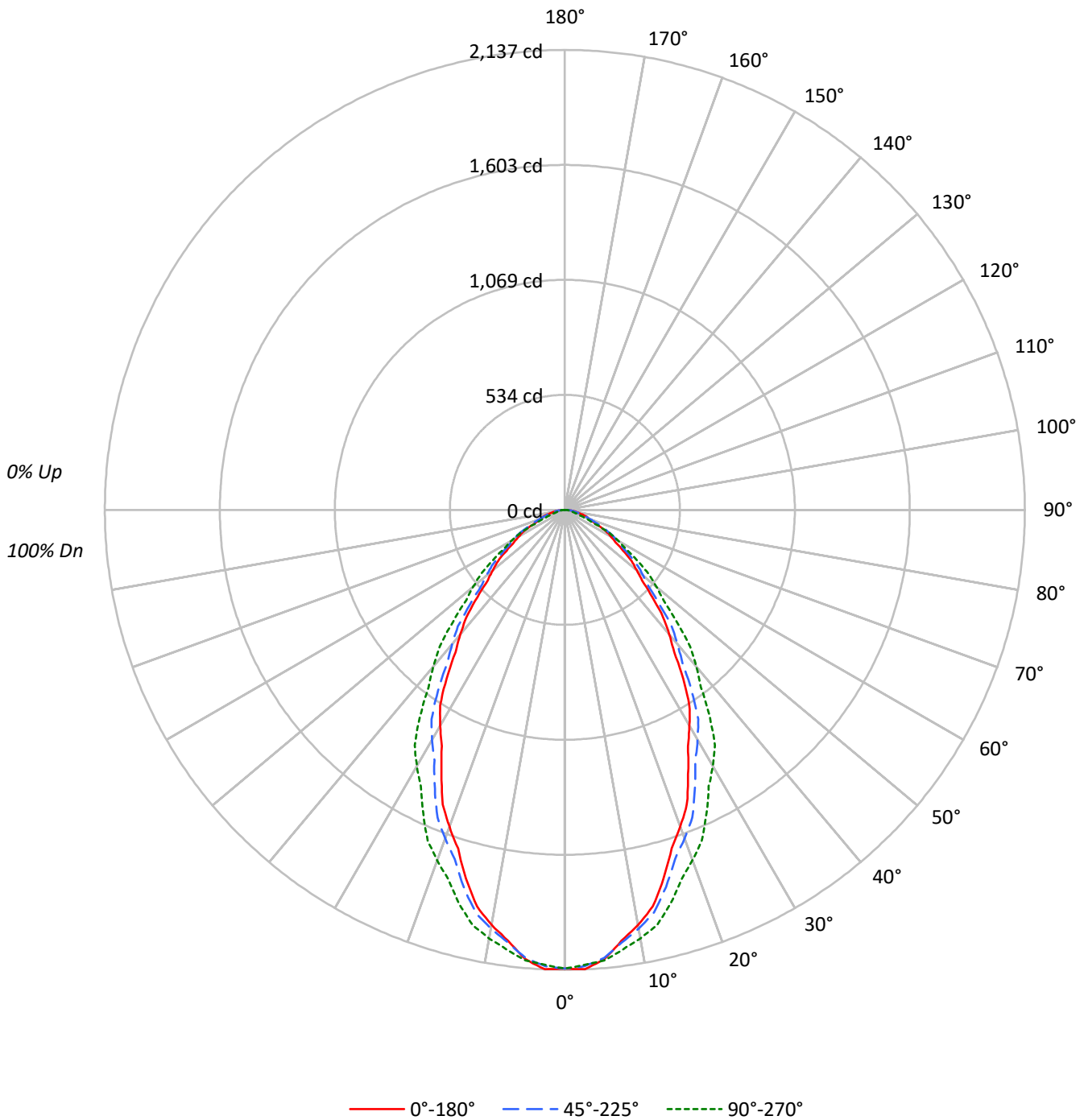
Lumens per Lamp: N/A
Luminaire Lumens: 3105.8 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 32.8
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				
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°	19665	19665	19665
5°	19419	19350	19462
10°	18346	18513	18942
15°	16937	17330	18107
20°	15380	15959	17015
25°	13795	14547	15851
30°	12335	13141	14646
35°	10787	11566	13220
40°	9079	9799	11444
45°	7492	8139	9555
50°	6255	6819	7960
55°	5310	5852	6574
60°	4539	5074	5246
65°	3613	4268	3388
70°	3205	3329	2069
75°	2966	2702	1265
80°	2731	2487	1095
85°	2477	2276	889



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.5	6.3
10°-20°	508.5	16.4
20°-30°	658.6	21.2
30°-40°	645.0	20.8
40°-50°	493.7	15.9
50°-60°	329.0	10.6
60°-70°	179.5	5.8
70°-80°	74.8	2.4
80°-90°	21.2	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°	1362.6	43.9
0°-40°	2007.6	64.6
0°-60°	2830.3	91.1
0°-90°	3105.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3105.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2131	2131	2131	2131	2131	
5°	2097	2076	2089	2094	2101	195
15°	1773	1767	1814	1864	1896	495
25°	1355	1359	1429	1491	1557	623
35°	958	962	1027	1096	1174	595
45°	574	585	624	671	732	448
55°	330	344	364	378	409	299
65°	166	179	196	171	155	172
75°	83	83	76	52	36	89
85°	23	23	22	14	8	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2131.4	2131.4	2131.4	2131.4	2131.4
2.5°	2136.6	2117.6	2122.4	2122.2	2116.4
5°	2096.8	2075.7	2089.3	2094.1	2101.4
7.5°	2018.9	2003.0	2027.7	2046.0	2060.8
10°	1958.3	1944.6	1976.1	2002.7	2021.9
12.5°	1888.0	1876.5	1915.5	1951.2	1976.3
15°	1773.2	1766.8	1814.3	1863.7	1895.7
17.5°	1650.3	1647.2	1701.7	1759.3	1800.3
20°	1566.5	1565.6	1625.4	1685.4	1733.0
22.5°	1481.9	1484.0	1546.8	1609.2	1663.4
25°	1355.1	1358.8	1429.0	1491.3	1557.1
27.5°	1237.9	1239.5	1312.1	1377.9	1448.1
30°	1157.8	1162.4	1233.5	1301.6	1374.8
32.5°	1077.7	1083.0	1152.7	1223.1	1297.7
35°	957.7	962.2	1026.9	1096.0	1173.7
37.5°	833.8	840.1	897.4	962.8	1039.2
40°	753.8	762.9	813.6	875.2	950.2
42.5°	676.7	688.1	735.1	793.5	861.1
45°	574.2	585.2	623.8	671.0	732.3
47.5°	485.9	498.6	528.2	568.9	621.2
50°	435.8	447.7	475.1	505.2	554.6
52.5°	391.7	403.6	428.0	451.2	493.2
55°	330.1	343.8	363.8	377.6	408.7
57.5°	279.6	292.8	308.6	314.8	333.7
60°	246.0	260.6	275.0	274.2	284.3
62.5°	215.3	227.7	242.0	232.1	232.7
65°	165.5	179.2	195.5	170.8	155.2
67.5°	133.7	136.7	153.4	119.1	100.6
70°	118.8	118.8	123.4	92.2	76.7
72.5°	104.6	104.6	100.3	75.0	58.7
75°	83.2	83.2	75.8	52.0	35.5
77.5°	64.2	63.4	58.0	38.8	25.8
80°	51.4	51.4	46.8	30.6	20.6
82.5°	40.2	40.2	36.3	23.9	15.3
85°	23.4	23.4	21.5	13.9	8.4
87.5°	8.2	8.2	7.5	4.5	3.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)