

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: P519212

Luminaire Tested: **SQ4-WB-075U-100D-830-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519212
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-100D-830-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

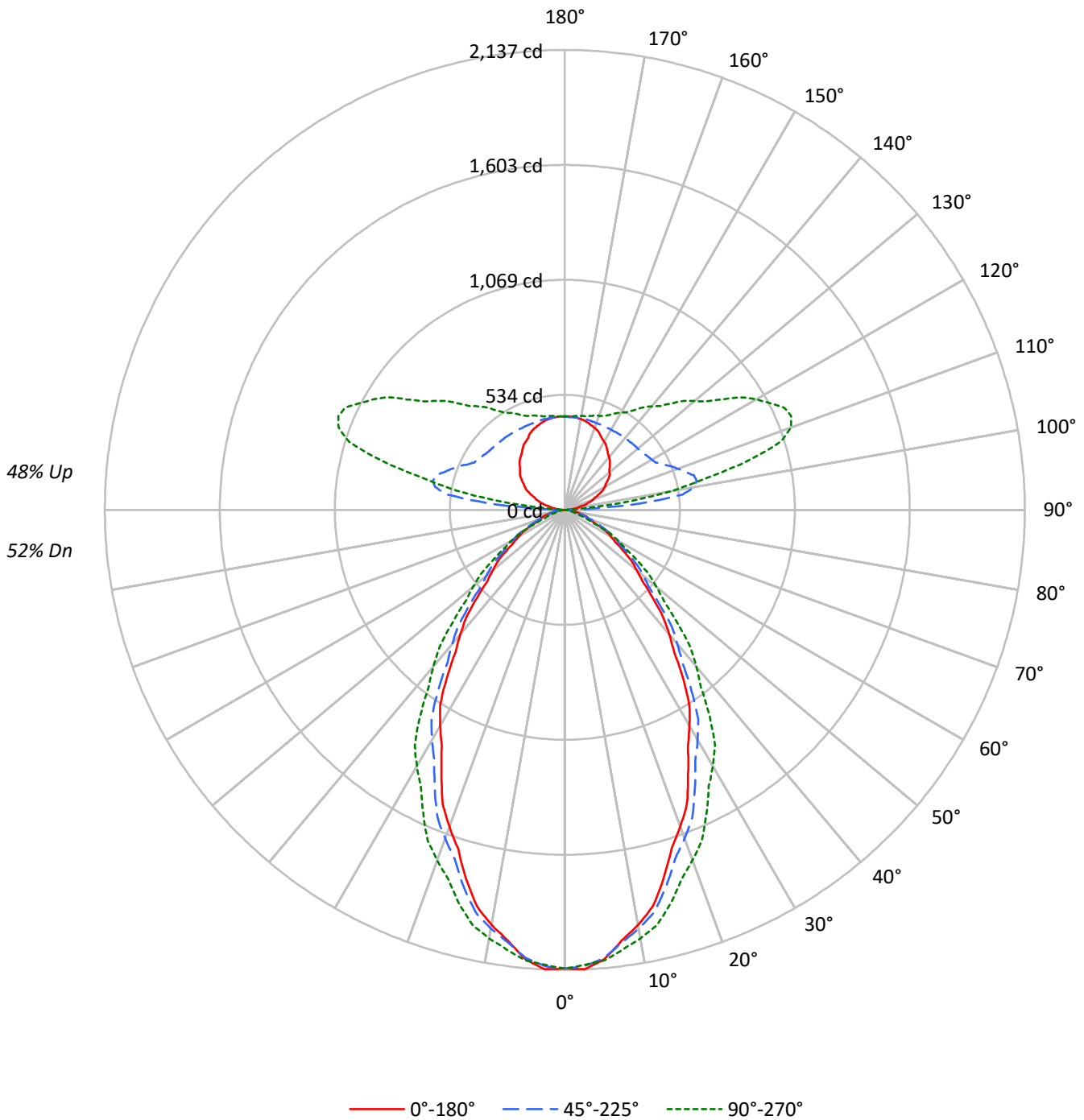
Lumens per Lamp: N/A
Luminaire Lumens: 5932.7 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 51.3
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	108	108	108	108	100	100	100	100	85	85	85	71	71	71	58	58	58	52				
1	99	96	92	89	92	89	86	83	76	74	72	64	63	61	53	52	52	46				
2	92	85	79	75	85	79	74	70	68	65	62	58	55	53	48	47	45	41				
3	84	76	69	64	78	71	65	60	61	57	53	52	49	47	44	42	40	36				
4	78	68	61	55	72	64	57	52	55	50	47	48	44	41	40	38	36	32				
5	72	61	54	48	67	57	51	46	50	45	41	43	40	37	37	34	32	29				
6	67	56	48	43	62	52	45	41	46	41	37	40	36	33	34	31	29	26				
7	62	51	43	38	58	48	41	36	42	37	33	37	33	30	32	29	26	24				
8	58	46	39	34	54	44	37	33	39	33	30	34	30	27	29	26	24	22				
9	54	43	36	31	51	40	34	30	36	31	27	31	27	24	27	24	22	20				
10	51	39	33	28	47	37	31	27	33	28	25	29	25	22	26	23	20	18				

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	3.3
10°-20°	508.5	8.6
20°-30°	658.6	11.1
30°-40°	645.0	10.9
40°-50°	493.7	8.3
50°-60°	329.0	5.5
60°-70°	179.5	3.0
70°-80°	74.8	1.3
80°-90°	22.3	0.4
90°-100°	204.6	3.4
100°-110°	562.9	9.5
110°-120°	581.0	9.8
120°-130°	465.5	7.8
130°-140°	365.6	6.2
140°-150°	280.2	4.7
150°-160°	201.4	3.4
160°-170°	123.2	2.1
170°-180°	41.5	0.7
0°-30°	1362.6	23.0
0°-40°	2007.6	33.8
0°-60°	2830.3	47.7
0°-90°	3106.9	52.4
90°-120°	1348.4	22.7
90°-150°	2459.7	41.5
90°-180°	2826.0	47.6
0°-180°	5932.7	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	25
90°	1	4	6	8	8	3
95°	30	112	362	155	99	32
105°	101	155	620	944	881	106
115°	178	217	497	990	1124	176
125°	246	280	451	763	894	219
135°	296	329	438	617	699	229
145°	342	366	432	526	567	215
155°	388	400	429	473	486	178
165°	419	424	431	449	451	118
175°	434	435	432	437	436	41
180°	434	434	434	434	434	



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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°	8.4	9.0	8.8	6.1	5.4
90°	0.9	3.6	6.5	8.3	8.3
92.5°	12.7	54.4	94.3	36.2	29.7
95°	30.5	111.7	361.8	154.7	98.8
97.5°	49.7	123.8	552.1	425.4	300.1
100°	63.7	131.4	611.9	617.6	503.9
102.5°	77.0	140.3	627.4	766.2	661.9
105°	100.6	154.7	620.2	944.5	881.4
107.5°	123.1	172.6	584.9	1031.9	1050.6
110°	139.4	184.5	558.4	1053.6	1118.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	154.1	197.8	531.8	1039.6	1138.5
115°	178.1	216.9	497.4	990.5	1124.1
117.5°	201.0	236.7	475.7	921.7	1072.8
120°	215.0	249.3	466.1	870.2	1026.3
122.5°	227.6	261.9	459.4	824.9	973.1
125°	245.5	279.8	451.3	763.4	894.3
127.5°	262.5	295.1	445.9	712.1	826.9
130°	271.3	304.7	443.0	681.6	786.3
132.5°	281.7	315.1	440.8	654.8	749.4
135°	296.3	328.7	438.4	617.4	698.6
137.5°	309.9	340.1	436.3	587.2	654.2
140°	320.2	348.2	435.6	567.1	627.6
142.5°	329.1	354.9	434.1	549.2	601.0
145°	342.4	365.9	431.9	526.1	566.7
147.5°	356.6	376.8	430.8	505.6	538.1
150°	365.5	383.5	430.1	494.3	519.6
152.5°	373.6	390.2	429.3	484.6	505.6
155°	387.6	400.3	429.2	472.8	486.4
157.5°	397.8	408.1	429.2	463.1	472.5
160°	405.2	413.3	429.2	457.9	465.1
162.5°	411.1	417.7	429.9	453.5	459.2
165°	419.0	424.4	431.0	448.6	451.3
167.5°	424.5	428.7	431.9	444.5	445.2
170°	428.2	430.9	431.9	443.0	443.0
172.5°	431.2	432.4	431.9	440.8	440.0
175°	433.8	434.7	431.9	437.4	436.5
177.5°	434.5	434.5	431.6	435.9	434.5
180°	433.8	433.8	433.8	433.8	433.8

(END OF REPORT)