

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: P519596

Luminaire Tested: **SQ4-WB-150U-100D-830-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519596
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, 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-150U-100D-830-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

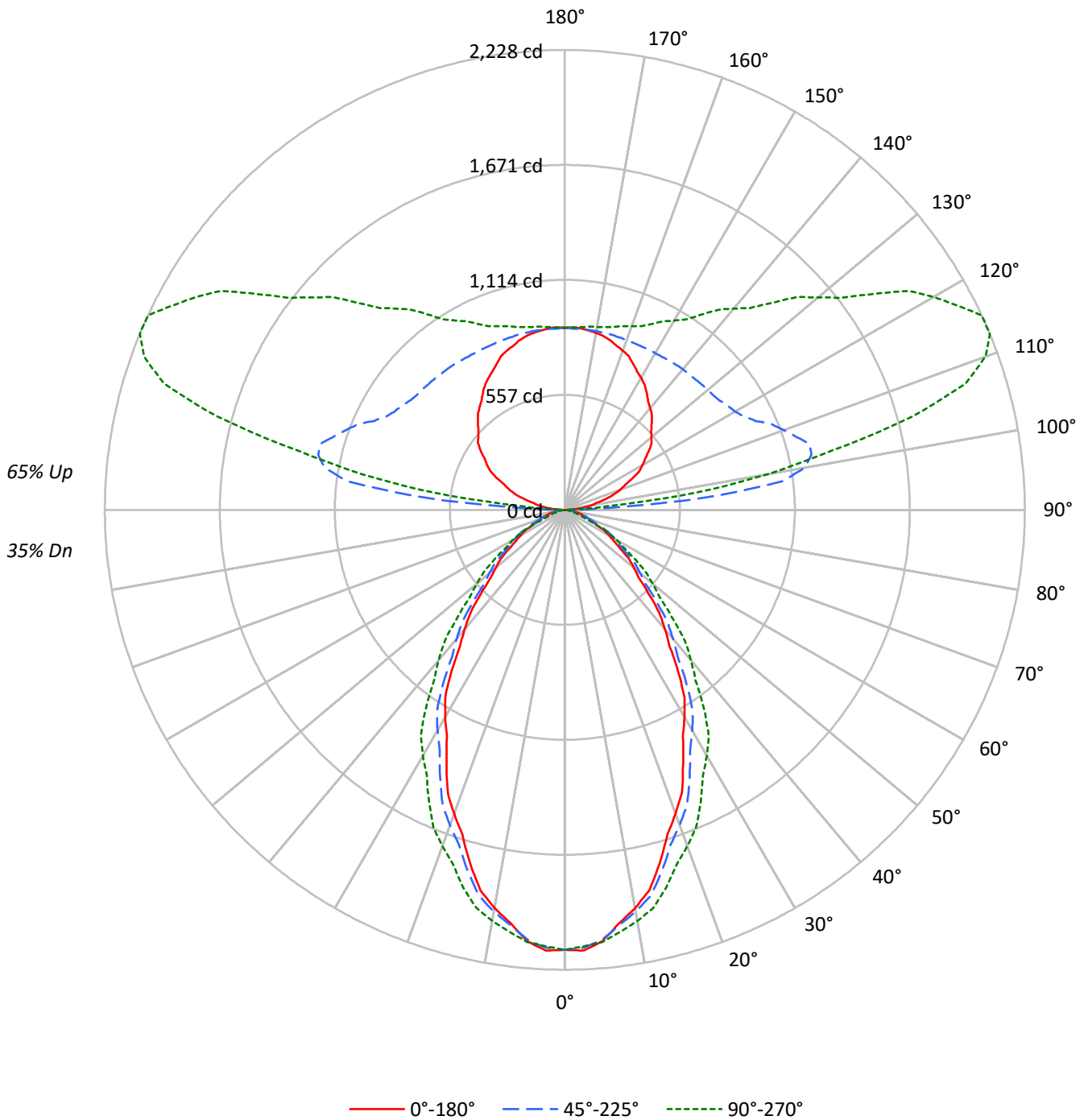
Lumens per Lamp: N/A
Luminaire Lumens: 8793.6 lumens
Efficiency: N/A
Efficacy: 121.6 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 72.3
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	104	104	104	104	94	94	94	94	75	75	75	58	58	58	43	43	43	35				
1	95	91	88	85	86	83	80	77	67	65	63	52	51	50	39	38	38	31				
2	87	81	75	71	79	73	69	65	60	56	54	47	45	43	35	34	33	28				
3	80	72	65	60	73	65	60	55	53	49	46	42	40	37	32	30	29	24				
4	74	64	57	51	67	58	52	47	48	44	40	38	35	33	29	27	26	22				
5	68	57	50	44	62	53	46	41	43	39	35	35	31	29	27	25	23	20				
6	63	52	44	39	57	47	41	36	39	35	31	32	28	26	25	22	21	18				
7	58	47	40	34	53	43	37	32	36	31	28	29	26	23	23	20	19	16				
8	54	43	36	31	49	39	33	29	33	28	25	27	23	21	21	19	17	15				
9	51	39	32	27	46	36	30	26	30	26	22	25	21	19	20	17	16	13				
10	47	36	29	25	43	33	27	23	28	23	20	23	20	17	18	16	14	12				

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	2.2
10°-20°	508.5	5.8
20°-30°	658.6	7.5
30°-40°	645.0	7.3
40°-50°	493.7	5.6
50°-60°	329.0	3.7
60°-70°	179.5	2.0
70°-80°	74.8	0.9
80°-90°	23.0	0.3
90°-100°	409.8	4.7
100°-110°	1108.2	12.6
110°-120°	1165.1	13.2
120°-130°	946.4	10.8
130°-140°	742.3	8.4
140°-150°	569.7	6.5
150°-160°	409.7	4.7
160°-170°	250.3	2.8
170°-180°	84.4	1.0
0°-30°	1362.6	15.5
0°-40°	2007.6	22.8
0°-60°	2830.3	32.2
0°-90°	3107.6	35.3
90°-120°	2683.1	30.5
90°-150°	4941.5	56.2
90°-180°	5686.0	64.7
0°-180°	8793.6	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°	2	6	12	13	12	5
95°	64	223	682	353	210	67
105°	206	318	1229	1813	1739	217
115°	363	443	1020	1974	2228	358
125°	496	569	919	1551	1822	443
135°	595	666	894	1252	1417	460
145°	692	744	882	1072	1153	433
155°	781	812	874	961	993	360
165°	851	859	878	912	917	240
175°	883	882	879	890	888	84
180°	882	882	882	882	882	

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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°	8.6	9.4	9.9	7.1	6.2
90°	1.9	5.6	12.3	13.3	12.3
92.5°	27.0	98.2	193.8	84.2	60.9
95°	63.6	223.3	681.6	352.7	209.8
97.5°	102.1	256.0	1062.5	879.3	645.7
100°	131.0	269.3	1180.9	1231.6	995.8
102.5°	157.6	287.7	1222.7	1498.7	1322.4
105°	206.0	318.3	1229.3	1813.4	1739.1
107.5°	250.8	353.3	1175.6	2009.7	2034.4
110°	285.7	378.6	1127.8	2062.4	2167.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	316.9	403.8	1083.7	2051.8	2228.0
115°	362.6	443.4	1019.6	1973.7	2228.0
117.5°	407.4	483.2	977.2	1854.3	2142.6
120°	434.8	509.0	952.2	1768.6	2062.8
122.5°	460.6	533.4	937.0	1676.8	1973.2
125°	496.5	568.9	918.9	1550.7	1821.7
127.5°	529.5	600.6	908.3	1447.8	1686.2
130°	547.7	621.1	903.7	1384.2	1599.6
132.5°	566.7	639.3	899.2	1326.9	1525.2
135°	595.2	665.8	894.2	1252.1	1417.3
137.5°	623.9	690.5	890.1	1191.4	1326.0
140°	643.6	705.8	888.5	1152.3	1272.1
142.5°	662.6	721.1	885.5	1117.1	1221.9
145°	692.0	744.0	881.9	1071.7	1153.4
147.5°	718.8	764.9	877.7	1030.7	1093.4
150°	738.6	779.4	876.2	1008.4	1058.5
152.5°	756.8	792.4	875.4	987.6	1028.9
155°	781.3	811.9	874.3	961.4	993.0
157.5°	806.7	828.1	874.5	943.1	963.9
160°	821.1	838.8	875.3	931.6	946.5
162.5°	832.5	847.2	876.0	922.4	933.5
165°	850.6	858.9	878.1	912.4	917.0
167.5°	862.9	868.7	878.3	903.8	906.0
170°	870.5	873.3	879.1	899.9	899.9
172.5°	876.6	877.1	879.1	895.4	894.6
175°	882.9	881.9	879.1	890.4	888.5
177.5°	884.9	882.7	878.9	886.4	884.2
180°	881.9	881.9	881.9	881.9	881.9

(END OF REPORT)