

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: P519581

Luminaire Tested: **SQ4-WB-150U-075D-840-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519581
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-075D-840-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

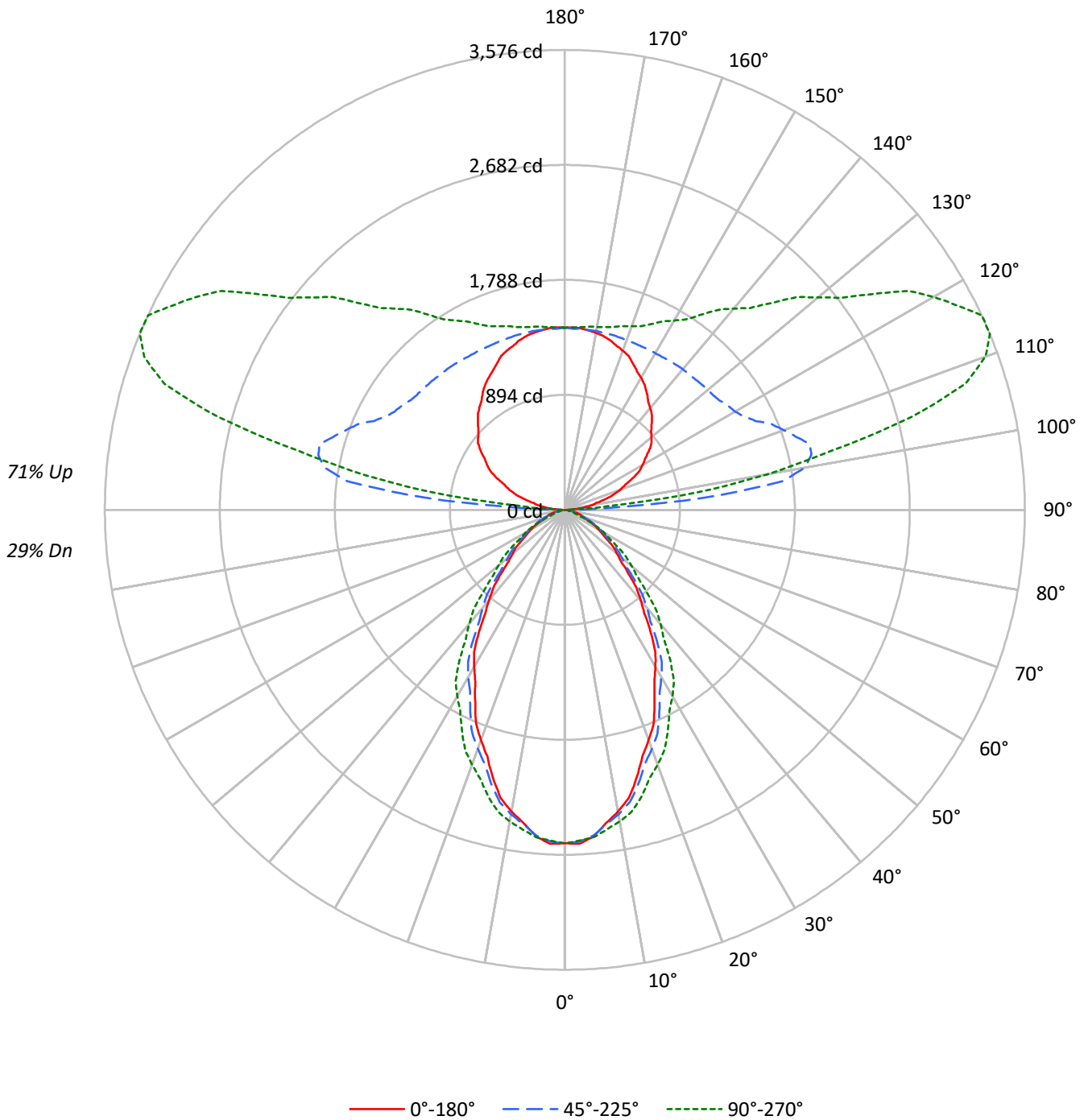
Lumens per Lamp: N/A
Luminaire Lumens: 12907.6 lumens
Efficiency: N/A
Efficacy: 132.0 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 97.8
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	102	102	102	102	92	92	92	92	72	72	72	54	54	54	37	37	37	29				
1	94	90	86	83	84	81	78	75	64	62	60	48	47	46	34	33	33	26				
2	86	79	74	69	77	71	67	63	57	54	51	43	41	39	31	29	28	23				
3	79	70	64	58	71	63	58	53	51	47	44	39	36	34	28	26	25	20				
4	72	63	55	50	65	57	50	46	45	41	38	35	32	30	25	24	22	18				
5	67	56	49	43	60	51	44	40	41	36	33	32	29	26	23	21	20	16				
6	62	50	43	38	55	46	39	35	37	32	29	29	26	23	21	19	18	15				
7	57	46	38	33	51	42	35	31	34	29	26	26	23	21	20	18	16	13				
8	53	41	34	29	48	38	32	27	31	26	23	24	21	19	18	16	15	12				
9	49	38	31	26	44	35	29	24	28	24	21	22	19	17	17	15	13	11				
10	46	35	28	24	42	32	26	22	26	22	19	21	18	15	16	14	12	10				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15946	15946	15946
5°	15747	15691	15782
10°	14878	15013	15361
15°	13734	14053	14683
20°	12472	12941	13797
25°	11186	11797	12854
30°	10002	10656	11877
35°	8747	9378	10719
40°	7362	7947	9280
45°	6076	6600	7748
50°	5072	5530	6455
55°	4307	4745	5331
60°	3681	4114	4254
65°	2930	3461	2748
70°	2599	2701	1678
75°	2405	2189	1027
80°	2217	2015	886
85°	2004	1849	720



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.8	1.8
10°-20°	618.5	4.8
20°-30°	801.2	6.2
30°-40°	784.5	6.1
40°-50°	600.5	4.7
50°-60°	400.1	3.1
60°-70°	218.4	1.7
70°-80°	91.0	0.7
80°-90°	28.7	0.2
90°-100°	657.9	5.1
100°-110°	1778.8	13.8
110°-120°	1870.1	14.5
120°-130°	1519.0	11.8
130°-140°	1191.6	9.2
140°-150°	914.5	7.1
150°-160°	657.7	5.1
160°-170°	401.8	3.1
170°-180°	135.5	1.0
0°-30°	1657.5	12.8
0°-40°	2442.0	18.9
0°-60°	3442.6	26.7
0°-90°	3780.7	29.3
90°-120°	4306.8	33.4
90°-150°	7931.9	61.5
90°-180°	9127.0	70.7
0°-180°	12907.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2592	2592	2592	2592	2592	
5°	2550	2525	2541	2547	2556	237
15°	2157	2149	2207	2267	2306	602
25°	1648	1653	1738	1814	1894	758
35°	1165	1170	1249	1333	1428	724
45°	698	712	759	816	891	545
55°	402	418	442	459	497	364
65°	201	218	238	208	189	209
75°	101	101	92	63	43	108
85°	28	28	26	17	10	31
90°	3	9	20	21	20	8
95°	102	358	1094	566	337	107
105°	331	511	1973	2911	2792	348
115°	582	712	1636	3168	3576	575
125°	797	913	1475	2489	2924	710
135°	955	1069	1435	2010	2275	738
145°	1111	1194	1416	1720	1851	695
155°	1254	1303	1403	1543	1594	578
165°	1365	1379	1410	1464	1472	385
175°	1417	1416	1411	1429	1426	135
180°	1416	1416	1416	1416	1416	

TEST NUMBER: P519581

CATALOG NUMBER: SQ4-WB-150U-075D-840-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2592.5	2592.5	2592.5	2592.5	2592.5
2.5°	2598.9	2575.7	2581.6	2581.4	2574.3
5°	2550.4	2524.8	2541.3	2547.2	2556.1
7.5°	2455.8	2436.4	2466.5	2488.7	2506.7
10°	2382.1	2365.4	2403.7	2436.0	2459.4
12.5°	2296.5	2282.5	2330.0	2373.4	2403.9
15°	2156.8	2149.0	2206.9	2266.9	2305.8
17.5°	2007.3	2003.6	2069.9	2140.0	2189.8
20°	1905.4	1904.3	1977.1	2050.1	2107.9
22.5°	1802.6	1805.0	1881.5	1957.4	2023.3
25°	1648.3	1652.8	1738.2	1814.0	1894.0
27.5°	1505.7	1507.7	1596.0	1676.0	1761.4
30°	1408.3	1413.9	1500.4	1583.2	1672.2
32.5°	1310.9	1317.4	1402.2	1487.7	1578.5
35°	1164.9	1170.4	1249.0	1333.1	1427.6
37.5°	1014.2	1021.8	1091.6	1171.1	1264.1
40°	916.9	928.0	989.7	1064.6	1155.8
42.5°	823.1	836.9	894.1	965.2	1047.5
45°	698.5	711.8	758.8	816.2	890.7
47.5°	591.1	606.4	642.5	691.9	755.6
50°	530.1	544.6	577.9	614.5	674.6
52.5°	476.4	490.9	520.5	548.8	599.9
55°	401.6	418.2	442.5	459.3	497.1
57.5°	340.1	356.1	375.4	383.0	405.9
60°	299.2	317.0	334.4	333.6	345.8
62.5°	261.9	277.0	294.4	282.4	283.0
65°	201.3	218.0	237.8	207.7	188.8
67.5°	162.7	166.2	186.6	144.9	122.4
70°	144.5	144.5	150.2	112.2	93.3
72.5°	127.2	127.2	121.9	91.2	71.4
75°	101.2	101.2	92.1	63.2	43.2
77.5°	78.0	77.1	70.5	47.2	31.4
80°	62.6	62.6	56.9	37.3	25.0
82.5°	48.9	48.9	44.1	29.1	18.7
85°	28.4	28.4	26.2	16.9	10.2
87.5°	10.6	11.8	13.1	9.7	8.5
90°	3.0	9.0	19.8	21.3	19.8
92.5°	43.3	157.7	311.2	135.1	97.8
95°	102.1	358.4	1094.1	566.2	336.8
97.5°	164.0	411.0	1705.4	1411.3	1036.5
100°	210.3	432.3	1895.6	1976.9	1598.4
102.5°	252.9	461.8	1962.6	2405.7	2122.6
105°	330.7	510.9	1973.3	2910.8	2791.6
107.5°	402.6	567.1	1887.1	3225.8	3265.5
110°	458.7	607.7	1810.3	3310.4	3478.8



TEST NUMBER: P519581

CATALOG NUMBER: SQ4-WB-150U-075D-840-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	508.6	648.1	1739.5	3293.5	3576.3
115°	582.1	711.7	1636.5	3168.1	3576.3
117.5°	654.0	775.6	1568.6	2976.4	3439.2
120°	697.9	817.1	1528.4	2838.9	3311.2
122.5°	739.3	856.1	1504.0	2691.5	3167.3
125°	796.9	913.2	1475.0	2489.1	2924.1
127.5°	850.0	964.1	1458.0	2323.9	2706.5
130°	879.2	996.9	1450.6	2221.9	2567.6
132.5°	909.7	1026.2	1443.3	2129.9	2448.1
135°	955.4	1068.6	1435.4	2009.8	2275.0
137.5°	1001.4	1108.4	1428.7	1912.4	2128.4
140°	1033.1	1132.9	1426.3	1849.7	2041.9
142.5°	1063.6	1157.5	1421.4	1793.1	1961.4
145°	1110.8	1194.3	1415.6	1720.3	1851.4
147.5°	1153.8	1227.7	1408.9	1654.4	1755.1
150°	1185.5	1251.1	1406.5	1618.6	1699.0
152.5°	1214.8	1272.0	1405.2	1585.3	1651.5
155°	1254.1	1303.2	1403.4	1543.2	1593.9
157.5°	1294.9	1329.2	1403.7	1513.9	1547.2
160°	1318.1	1346.4	1404.9	1495.4	1519.2
162.5°	1336.4	1359.9	1406.1	1480.6	1498.5
165°	1365.3	1378.7	1409.5	1464.5	1472.0
167.5°	1385.1	1394.4	1409.8	1450.7	1454.3
170°	1397.3	1401.8	1411.0	1444.5	1444.5
172.5°	1407.1	1408.0	1411.0	1437.2	1436.0
175°	1417.1	1415.6	1411.0	1429.2	1426.3
177.5°	1420.5	1416.9	1410.7	1422.8	1419.3
180°	1415.6	1415.6	1415.6	1415.6	1415.6

(END OF REPORT)