

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: P519197

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

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519197
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-075D-840-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

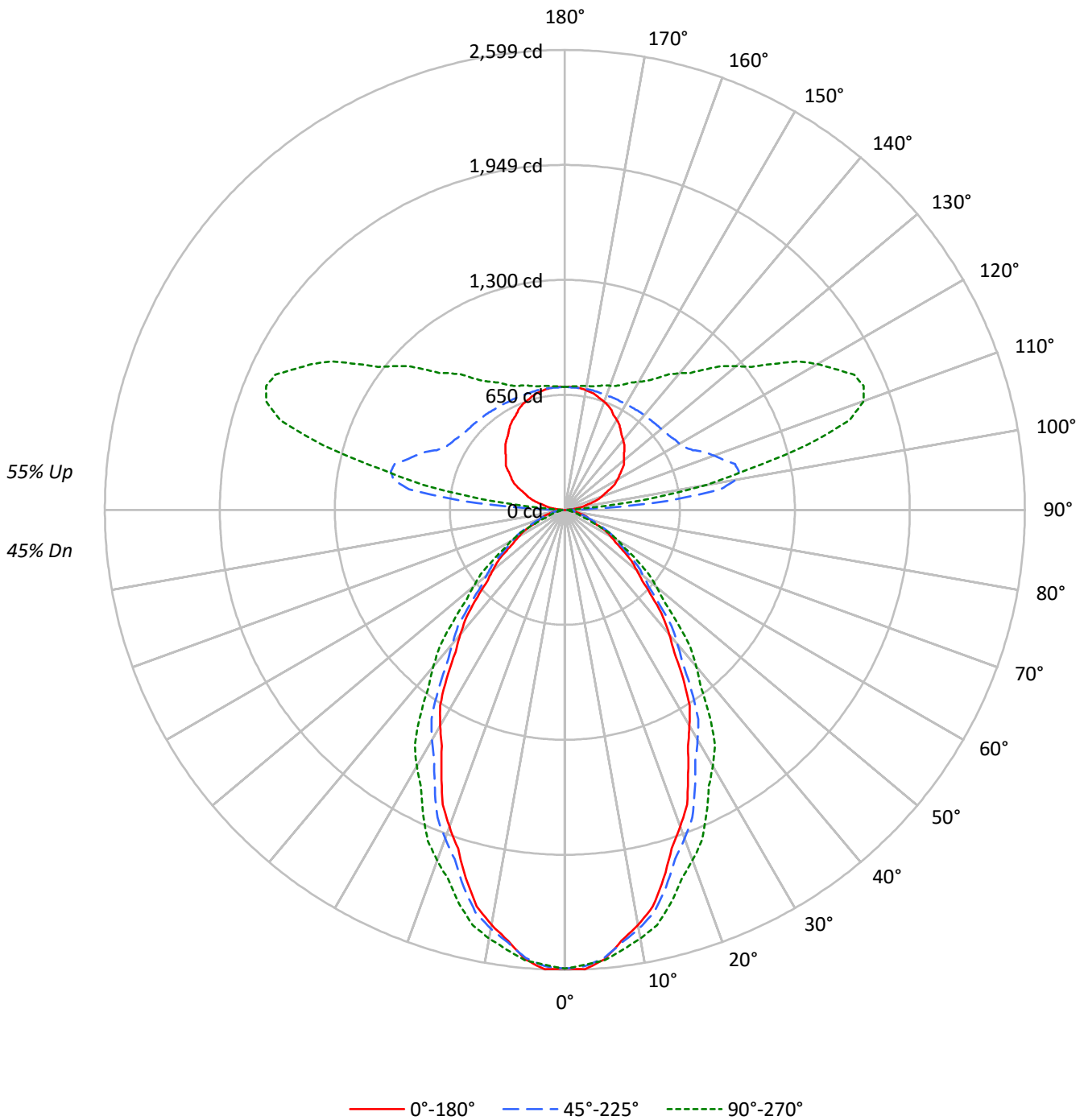
Lumens per Lamp: N/A
Luminaire Lumens: 8315.4 lumens
Efficiency: N/A
Efficacy: 122.3 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 68
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: P519197
CATALOG NUMBER: SQ4-WB-075U-075D-840-1D-UNV-STD-W-6

Luminous Intensity Polar Plot





TEST NUMBER: P519197

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

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20				
RC	80					70					50					30				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																				
0	106	106	106	106	97	97	97	97	81	81	81	66	66	66	52	52	52	45		
1	98	94	90	87	90	86	83	81	72	70	68	59	58	57	47	47	46	40		
2	90	83	78	73	82	77	72	68	65	61	58	53	51	49	43	42	40	36		
3	83	74	67	62	76	69	63	58	58	54	50	48	45	43	39	37	36	31		
4	76	66	59	54	70	61	55	50	52	48	44	44	40	38	36	34	32	28		
5	70	60	52	47	65	55	49	44	47	42	39	40	36	33	33	30	28	25		
6	65	54	47	41	60	50	44	39	43	38	34	36	33	30	30	28	26	23		
7	61	49	42	37	56	46	39	35	39	34	31	34	30	27	28	25	23	21		
8	56	45	38	33	52	42	36	31	36	31	28	31	27	24	26	23	21	19		
9	53	41	34	29	49	39	32	28	34	29	25	29	25	22	24	21	19	17		
10	49	38	31	27	46	36	30	25	31	26	23	27	23	20	23	20	18	16		

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



TEST NUMBER: P519197

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.8	2.9
10°-20°	618.5	7.4
20°-30°	801.2	9.6
30°-40°	784.5	9.4
40°-50°	600.5	7.2
50°-60°	400.1	4.8
60°-70°	218.4	2.6
70°-80°	91.0	1.1
80°-90°	27.5	0.3
90°-100°	328.4	3.9
100°-110°	903.5	10.9
110°-120°	932.6	11.2
120°-130°	747.2	9.0
130°-140°	586.8	7.1
140°-150°	449.7	5.4
150°-160°	323.3	3.9
160°-170°	197.7	2.4
170°-180°	66.6	0.8
0°-30°	1657.5	19.9
0°-40°	2442.0	29.4
0°-60°	3442.6	41.4
0°-90°	3779.5	45.5
90°-120°	2164.4	26.0
90°-150°	3948.2	47.5
90°-180°	4536.0	54.5
0°-180°	8315.4	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°	2	6	10	13	13	5
95°	49	179	581	248	158	52
105°	162	248	996	1516	1415	170
115°	286	348	798	1590	1804	282
125°	394	449	724	1226	1436	352
135°	476	528	704	991	1121	367
145°	550	587	693	844	910	345
155°	622	642	689	759	781	286
165°	673	681	692	720	724	190
175°	696	698	693	702	701	66
180°	696	696	696	696	696	

TEST NUMBER: P519197

CATALOG NUMBER: SQ4-WB-075U-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°	10.3	11.2	11.2	8.1	7.2
90°	1.5	5.8	10.4	13.3	13.3
92.5°	20.4	87.4	151.4	58.1	47.7
95°	48.9	179.3	580.7	248.3	158.5
97.5°	79.7	198.8	886.2	682.8	481.8
100°	102.2	210.9	982.2	991.4	808.8
102.5°	123.5	225.2	1007.1	1229.9	1062.5
105°	161.5	248.4	995.5	1516.1	1414.7
107.5°	197.6	277.0	938.9	1656.3	1686.4
110°	223.7	296.1	896.3	1691.2	1795.5

TEST NUMBER: P519197

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

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	247.4	317.5	853.6	1668.7	1827.5
115°	285.9	348.2	798.5	1590.0	1804.4
117.5°	322.7	380.0	763.5	1479.5	1722.0
120°	345.2	400.2	748.1	1396.7	1647.3
122.5°	365.3	420.4	737.4	1324.2	1562.0
125°	394.1	449.1	724.4	1225.5	1435.5
127.5°	421.3	473.7	715.8	1143.1	1327.3
130°	435.5	489.1	711.1	1094.1	1262.2
132.5°	452.1	505.7	707.5	1051.1	1202.9
135°	475.5	527.7	703.7	991.1	1121.4
137.5°	497.5	545.8	700.4	942.5	1050.0
140°	514.0	559.0	699.2	910.3	1007.4
142.5°	528.3	569.7	696.9	881.5	964.7
145°	549.6	587.3	693.3	844.4	909.6
147.5°	572.4	604.9	691.5	811.5	863.7
150°	586.6	615.6	690.3	793.5	834.0
152.5°	599.7	626.3	689.2	777.9	811.5
155°	622.2	642.5	688.9	759.0	780.7
157.5°	638.5	655.0	688.9	743.4	758.5
160°	650.3	663.4	688.9	735.0	746.6
162.5°	659.8	670.5	690.0	727.9	737.1
165°	672.6	681.2	691.8	720.1	724.4
167.5°	681.4	688.1	693.3	713.5	714.6
170°	687.4	691.7	693.3	711.1	711.1
172.5°	692.1	694.1	693.3	707.5	706.3
175°	696.3	697.7	693.3	702.2	700.7
177.5°	697.4	697.4	692.7	699.8	697.4
180°	696.3	696.3	696.3	696.3	696.3

(END OF REPORT)