

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: P519005

Luminaire Tested: **SQ4-WB-025U-075D-840-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519005
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-025U-075D-840-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

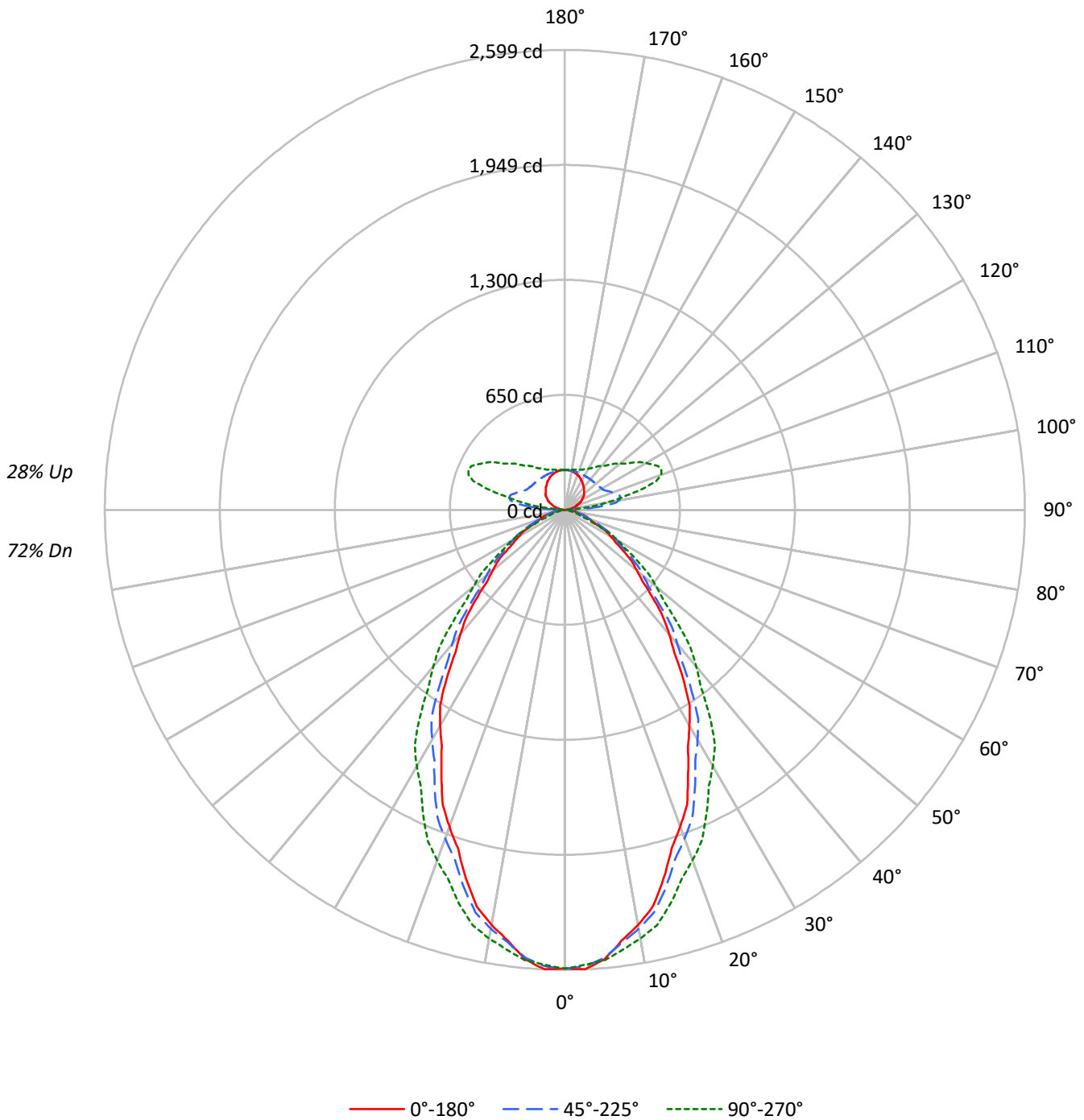
Lumens per Lamp: N/A
Luminaire Lumens: 5242.4 lumens
Efficiency: N/A
Efficacy: 107.9 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 48.6
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	0
RCR																		
0	112	112	112	112	107	107	107	107	96	96	96	86	86	86	76	76	76	72
1	104	101	97	94	99	96	93	90	86	84	82	78	76	75	70	69	68	64
2	96	90	84	80	91	86	81	77	78	74	71	70	68	65	64	62	60	56
3	89	81	74	69	85	77	71	66	70	66	62	64	60	57	58	55	53	50
4	83	73	65	60	78	70	63	58	64	58	54	58	54	51	53	50	47	44
5	77	66	58	53	73	63	56	51	58	52	48	53	49	45	49	45	42	40
6	71	60	52	47	68	58	51	46	53	47	43	49	44	41	45	41	38	36
7	67	55	47	42	63	53	46	41	49	43	39	45	40	37	42	38	35	33
8	62	51	43	38	59	49	42	37	45	40	35	42	37	34	39	35	32	30
9	58	47	40	35	56	45	39	34	42	36	32	39	34	31	36	32	29	27
10	55	43	36	32	52	42	35	31	39	34	30	36	32	28	34	30	27	25

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	4.5
10°-20°	618.5	11.8
20°-30°	801.2	15.3
30°-40°	784.5	15.0
40°-50°	600.5	11.5
50°-60°	400.1	7.6
60°-70°	218.4	4.2
70°-80°	91.0	1.7
80°-90°	27.0	0.5
90°-100°	110.0	2.1
100°-110°	289.3	5.5
110°-120°	300.0	5.7
120°-130°	240.6	4.6
130°-140°	188.8	3.6
140°-150°	144.9	2.8
150°-160°	104.4	2.0
160°-170°	63.9	1.2
170°-180°	21.6	0.4
0°-30°	1657.5	31.6
0°-40°	2442.0	46.6
0°-60°	3442.6	65.7
0°-90°	3779.0	72.1
90°-120°	699.3	13.3
90°-150°	1273.6	24.3
90°-180°	1463.0	27.9
0°-180°	5242.4	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°	1	4	12	6	6	3
95°	14	57	190	98	67	16
105°	52	79	320	486	453	55
115°	93	112	256	511	583	91
125°	129	144	233	394	465	114
135°	153	169	226	318	360	119
145°	178	189	223	271	292	112
155°	201	207	223	245	252	92
165°	217	220	223	232	234	61
175°	226	226	224	227	227	21
180°	226	226	226	226	226	



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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	10.9	11.4	6.6	5.7
90°	1.4	4.3	11.6	5.8	5.8
92.5°	6.1	29.3	64.8	28.7	18.5
95°	14.5	56.9	189.6	97.7	66.6
97.5°	25.2	62.5	283.7	225.6	166.2
100°	33.3	67.3	312.6	316.8	246.0
102.5°	40.2	71.9	320.7	394.6	334.0
105°	52.1	79.0	319.9	485.6	453.0
107.5°	64.3	89.2	301.6	532.8	540.7
110°	72.4	95.0	286.6	545.0	578.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	80.5	102.0	272.7	537.3	589.4
115°	92.6	112.4	256.2	511.1	583.3
117.5°	104.5	122.6	244.9	474.8	554.9
120°	111.4	128.4	240.3	450.4	528.3
122.5°	118.4	135.4	236.8	426.1	502.8
125°	128.8	144.4	233.0	393.8	464.6
127.5°	137.2	153.1	229.8	367.8	427.5
130°	141.8	158.8	228.7	351.5	406.7
132.5°	146.5	163.5	227.5	337.5	387.0
135°	153.4	169.0	225.8	317.9	360.4
137.5°	160.7	175.9	225.5	303.3	338.1
140°	166.4	180.6	224.3	291.7	324.2
142.5°	171.1	184.1	224.3	283.4	311.5
145°	178.0	189.3	222.9	271.1	292.4
147.5°	185.0	196.0	222.9	260.9	278.5
150°	189.6	199.5	222.9	255.1	269.2
152.5°	194.2	201.9	222.9	250.3	261.1
155°	201.2	206.8	222.9	244.8	251.8
157.5°	206.4	211.8	222.9	239.8	244.9
160°	209.9	214.1	222.9	237.4	240.3
162.5°	213.3	216.5	222.9	235.1	237.9
165°	217.1	219.9	222.9	231.6	234.5
167.5°	220.6	222.0	224.3	230.2	231.3
170°	222.9	224.3	224.3	230.1	230.1
172.5°	224.0	224.3	224.3	228.9	227.8
175°	225.8	225.8	224.3	227.2	227.2
177.5°	225.8	225.8	224.6	226.9	225.8
180°	225.8	225.8	225.8	225.8	225.8

(END OF REPORT)