

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: P519012

Luminaire Tested: **SQ4-WB-025U-075D-935-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519012
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-935-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

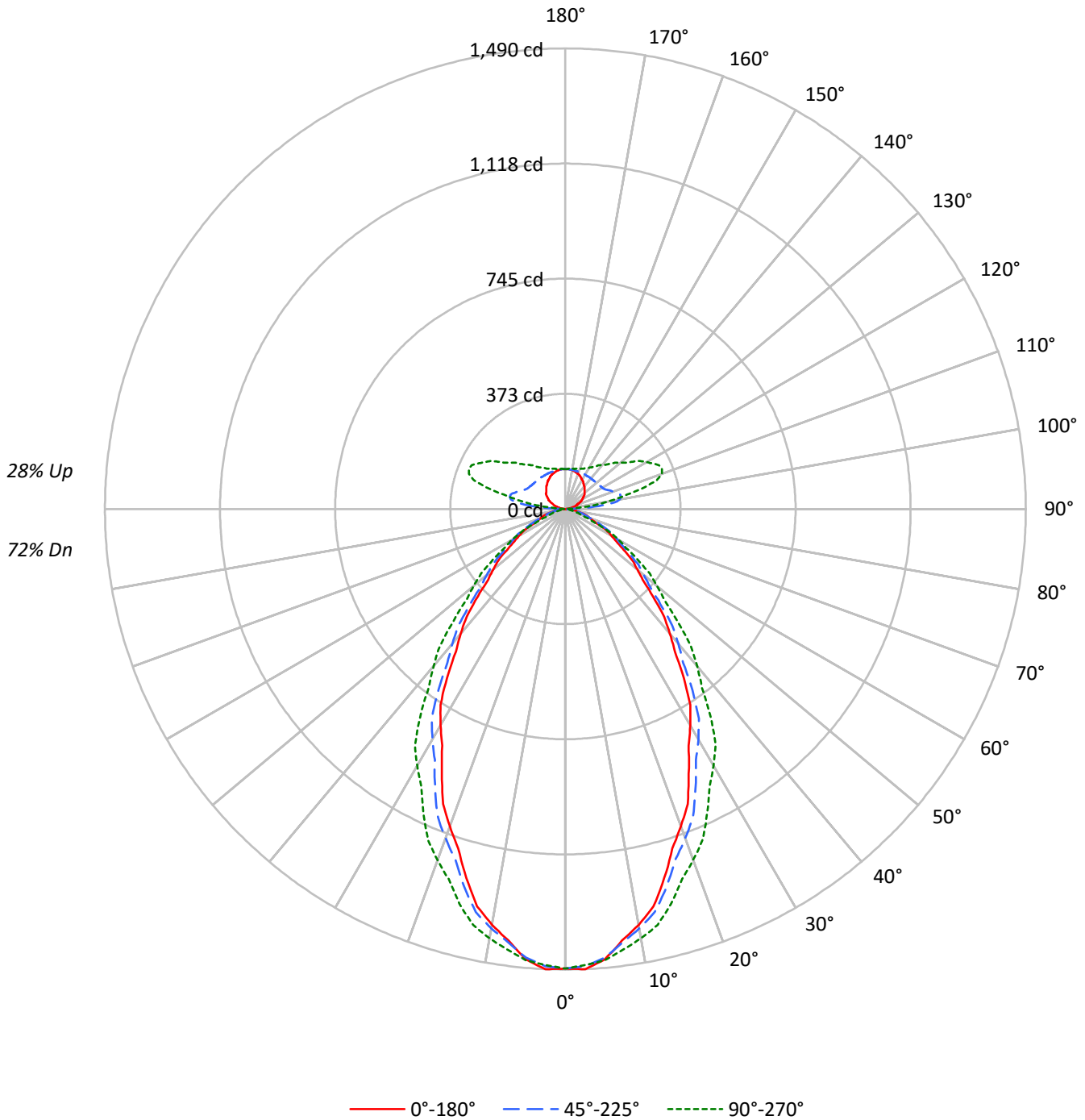
Lumens per Lamp: N/A
Luminaire Lumens: 3006.5 lumens
Efficiency: N/A
Efficacy: 100.6 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 29.9
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°	13718	13718	13718
5°	13546	13498	13576
10°	12798	12915	13213
15°	11814	12089	12631
20°	10728	11132	11869
25°	9623	10147	11058
30°	8604	9167	10217
35°	7524	8068	9221
40°	6333	6836	7983
45°	5227	5677	6665
50°	4363	4757	5553
55°	3704	4082	4586
60°	3166	3539	3659
65°	2521	2976	2364
70°	2236	2323	1443
75°	2071	1882	884
80°	1907	1732	765
85°	1725	1588	625



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.4	4.5
10°-20°	354.7	11.8
20°-30°	459.5	15.3
30°-40°	449.9	15.0
40°-50°	344.4	11.5
50°-60°	229.5	7.6
60°-70°	125.2	4.2
70°-80°	52.2	1.7
80°-90°	15.5	0.5
90°-100°	63.1	2.1
100°-110°	165.9	5.5
110°-120°	172.0	5.7
120°-130°	138.0	4.6
130°-140°	108.3	3.6
140°-150°	83.1	2.8
150°-160°	59.9	2.0
160°-170°	36.6	1.2
170°-180°	12.4	0.4
0°-30°	950.5	31.6
0°-40°	1400.4	46.6
0°-60°	1974.3	65.7
0°-90°	2167.2	72.1
90°-120°	401.1	13.3
90°-150°	730.4	24.3
90°-180°	839.0	27.9
0°-180°	3006.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1487	1487	1487	1487	1487	
5°	1463	1448	1457	1461	1466	136
15°	1237	1232	1266	1300	1322	345
25°	945	948	997	1040	1086	435
35°	668	671	716	764	819	415
45°	401	408	435	468	511	312
55°	230	240	254	263	285	209
65°	116	125	136	119	108	120
75°	58	58	53	36	25	62
85°	16	16	15	10	6	18
90°	1	2	7	3	3	2
95°	8	33	109	56	38	9
105°	30	45	183	278	260	32
115°	53	64	147	293	334	52
125°	74	83	134	226	266	66
135°	88	97	130	182	207	68
145°	102	109	128	156	168	64
155°	115	119	128	140	144	53
165°	124	126	128	133	134	35
175°	130	130	129	130	130	12
180°	130	130	130	130	130	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1486.8	1486.8	1486.8	1486.8	1486.8
2.5°	1490.4	1477.2	1480.5	1480.4	1476.3
5°	1462.6	1448.0	1457.4	1460.8	1465.9
7.5°	1408.4	1397.3	1414.5	1427.3	1437.6
10°	1366.1	1356.5	1378.5	1397.1	1410.4
12.5°	1317.0	1309.0	1336.2	1361.1	1378.6
15°	1236.9	1232.4	1265.6	1300.0	1322.4
17.5°	1151.2	1149.0	1187.1	1227.3	1255.8
20°	1092.7	1092.1	1133.8	1175.7	1208.9
22.5°	1033.8	1035.2	1079.0	1122.6	1160.3
25°	945.3	947.9	996.8	1040.3	1086.2
27.5°	863.5	864.6	915.3	961.2	1010.1
30°	807.6	810.8	860.5	908.0	959.0
32.5°	751.8	755.5	804.1	853.2	905.2
35°	668.0	671.2	716.3	764.5	818.7
37.5°	581.7	586.0	626.0	671.6	724.9
40°	525.8	532.2	567.6	610.5	662.8
42.5°	472.1	480.0	512.8	553.5	600.7
45°	400.6	408.2	435.1	468.1	510.8
47.5°	339.0	347.8	368.5	396.8	433.3
50°	304.0	312.3	331.4	352.4	386.9
52.5°	273.2	281.5	298.5	314.7	344.1
55°	230.3	239.9	253.8	263.4	285.1
57.5°	195.1	204.2	215.3	219.6	232.8
60°	171.6	181.8	191.8	191.3	198.3
62.5°	150.2	158.9	168.8	161.9	162.3
65°	115.5	125.0	136.3	119.1	108.3
67.5°	93.3	95.3	107.0	83.1	70.2
70°	82.9	82.9	86.1	64.3	53.5
72.5°	72.9	72.9	69.9	52.3	41.0
75°	58.1	58.1	52.8	36.3	24.8
77.5°	44.8	44.2	40.4	27.1	18.0
80°	35.9	35.9	32.6	21.4	14.4
82.5°	28.1	28.1	25.3	16.7	10.7
85°	16.3	16.3	15.0	9.7	5.9
87.5°	5.9	6.2	6.5	3.8	3.3
90°	0.8	2.5	6.6	3.3	3.3
92.5°	3.5	16.8	37.2	16.5	10.6
95°	8.3	32.6	108.7	56.0	38.2
97.5°	14.4	35.9	162.7	129.4	95.3
100°	19.1	38.6	179.3	181.7	141.1
102.5°	23.1	41.3	183.9	226.3	191.6
105°	29.9	45.3	183.4	278.5	259.8
107.5°	36.9	51.1	173.0	305.6	310.1
110°	41.5	54.5	164.3	312.5	332.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	46.2	58.5	156.4	308.1	338.0
115°	53.1	64.5	146.9	293.1	334.5
117.5°	59.9	70.3	140.4	272.3	318.2
120°	63.9	73.7	137.8	258.3	303.0
122.5°	67.9	77.6	135.8	244.4	288.4
125°	73.9	82.8	133.6	225.9	266.4
127.5°	78.7	87.8	131.8	210.9	245.2
130°	81.3	91.1	131.1	201.6	233.2
132.5°	84.0	93.7	130.5	193.5	222.0
135°	88.0	96.9	129.5	182.3	206.7
137.5°	92.1	100.9	129.3	173.9	193.9
140°	95.5	103.6	128.7	167.3	185.9
142.5°	98.1	105.6	128.7	162.6	178.6
145°	102.1	108.6	127.8	155.5	167.7
147.5°	106.1	112.4	127.8	149.6	159.7
150°	108.7	114.4	127.8	146.3	154.4
152.5°	111.4	115.8	127.8	143.6	149.7
155°	115.4	118.6	127.8	140.4	144.4
157.5°	118.4	121.4	127.8	137.5	140.4
160°	120.4	122.8	127.8	136.2	137.8
162.5°	122.3	124.1	127.8	134.8	136.5
165°	124.5	126.1	127.8	132.8	134.5
167.5°	126.5	127.3	128.7	132.0	132.6
170°	127.8	128.6	128.7	132.0	132.0
172.5°	128.5	128.7	128.7	131.3	130.6
175°	129.5	129.5	128.7	130.3	130.3
177.5°	129.5	129.5	128.8	130.1	129.5
180°	129.5	129.5	129.5	129.5	129.5

(END OF REPORT)