

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: P518997

Luminaire Tested: **SQ4-WB-025U-075D-830-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P518997
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-830-1D-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: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

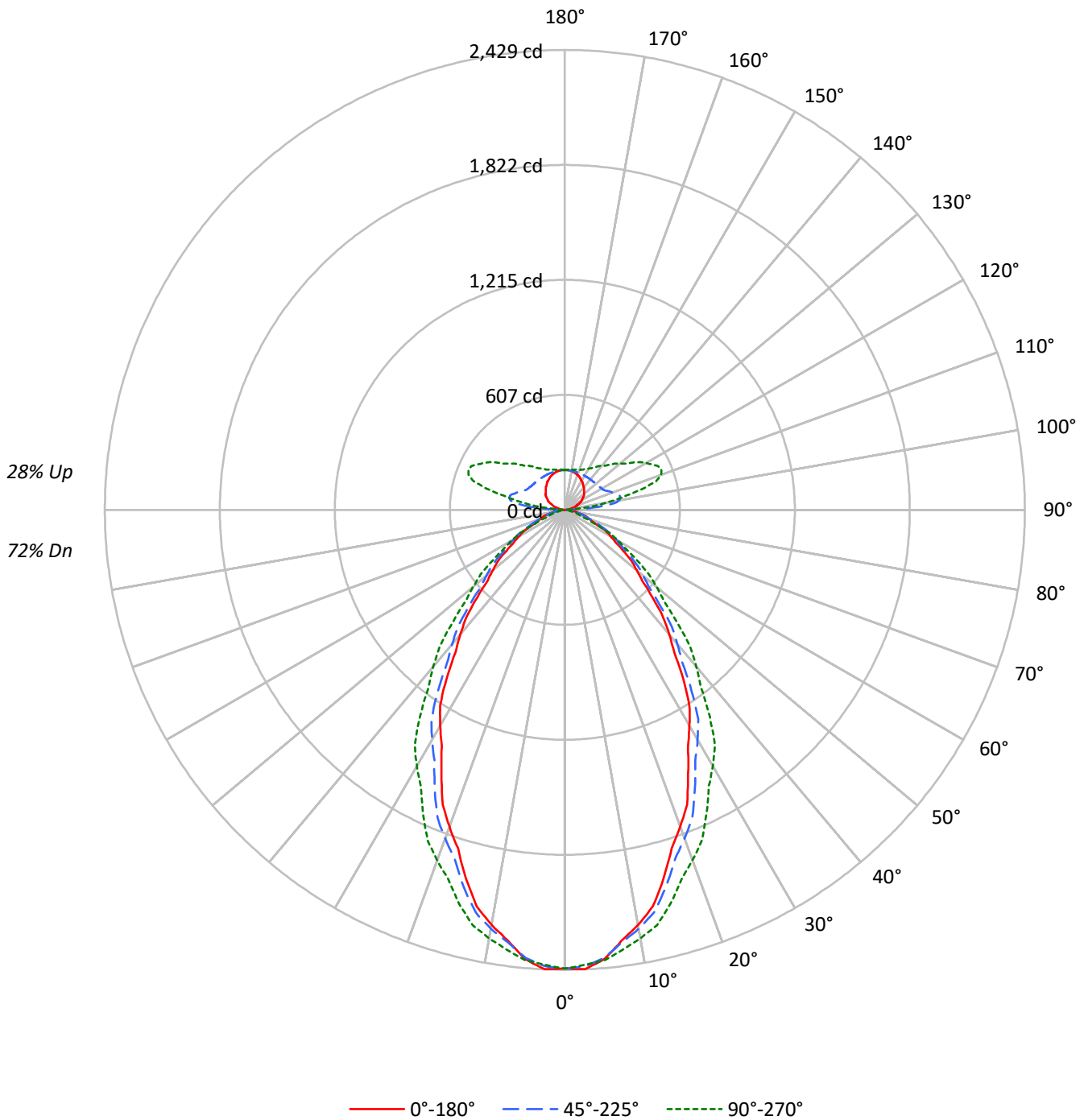
Lumens per Lamp: N/A
Luminaire Lumens: 4898.9 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14902	14902	14902
5°	14715	14663	14748
10°	13903	14029	14354
15°	12834	13132	13721
20°	11655	12094	12893
25°	10453	11024	12012
30°	9347	9958	11099
35°	8174	8764	10017
40°	6880	7425	8672
45°	5678	6167	7241
50°	4740	5167	6032
55°	4025	4434	4981
60°	3440	3844	3976
65°	2739	3234	2569
70°	2428	2523	1568
75°	2248	2046	960
80°	2072	1884	829
85°	1877	1722	677



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.2	4.5
10°-20°	578.0	11.8
20°-30°	748.7	15.3
30°-40°	733.1	15.0
40°-50°	561.2	11.5
50°-60°	373.9	7.6
60°-70°	204.0	4.2
70°-80°	85.0	1.7
80°-90°	25.2	0.5
90°-100°	102.8	2.1
100°-110°	270.3	5.5
110°-120°	280.3	5.7
120°-130°	224.9	4.6
130°-140°	176.4	3.6
140°-150°	135.4	2.8
150°-160°	97.5	2.0
160°-170°	59.7	1.2
170°-180°	20.2	0.4
0°-30°	1548.9	31.6
0°-40°	2282.0	46.6
0°-60°	3217.1	65.7
0°-90°	3531.4	72.1
90°-120°	653.5	13.3
90°-150°	1190.2	24.3
90°-180°	1368.0	27.9
0°-180°	4898.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2423	2423	2423	2423	2423	
5°	2383	2359	2375	2380	2389	222
15°	2016	2008	2062	2118	2155	563
25°	1540	1544	1624	1695	1770	708
35°	1089	1094	1167	1246	1334	677
45°	653	665	709	763	832	509
55°	375	391	414	429	464	340
65°	188	204	222	194	176	196
75°	95	95	86	59	40	101
85°	27	27	24	16	10	29
90°	1	4	11	5	5	2
95°	14	53	177	91	62	15
105°	49	74	299	454	423	52
115°	87	105	239	478	545	85
125°	120	135	218	368	434	107
135°	143	158	211	297	337	111
145°	166	177	208	253	273	104
155°	188	193	208	229	235	86
165°	203	206	208	216	219	57
175°	211	211	210	212	212	20
180°	211	211	211	211	211	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2422.7	2422.7	2422.7	2422.7	2422.7
2.5°	2428.6	2407.0	2412.5	2412.3	2405.7
5°	2383.3	2359.4	2374.8	2380.3	2388.6
7.5°	2294.9	2276.8	2304.9	2325.7	2342.5
10°	2226.0	2210.4	2246.2	2276.5	2298.3
12.5°	2146.1	2133.0	2177.3	2217.9	2246.4
15°	2015.5	2008.2	2062.3	2118.4	2154.8
17.5°	1875.8	1872.3	1934.3	1999.8	2046.3
20°	1780.6	1779.5	1847.6	1915.8	1969.8
22.5°	1684.5	1686.8	1758.3	1829.2	1890.7
25°	1540.3	1544.5	1624.3	1695.1	1770.0
27.5°	1407.0	1408.9	1491.4	1566.2	1646.0
30°	1316.0	1321.2	1402.1	1479.5	1562.7
32.5°	1225.0	1231.1	1310.3	1390.3	1475.1
35°	1088.6	1093.7	1167.2	1245.8	1334.1
37.5°	947.8	954.9	1020.1	1094.4	1181.2
40°	856.8	867.2	924.8	994.8	1080.0
42.5°	769.2	782.1	835.5	901.9	978.8
45°	652.7	665.2	709.0	762.7	832.4
47.5°	552.4	566.7	600.4	646.6	706.1
50°	495.4	508.9	540.0	574.3	630.4
52.5°	445.2	458.7	486.4	512.8	560.6
55°	375.3	390.8	413.5	429.2	464.5
57.5°	317.8	332.8	350.8	357.9	379.3
60°	279.6	296.2	312.5	311.7	323.2
62.5°	244.7	258.8	275.1	263.9	264.5
65°	188.2	203.7	222.2	194.1	176.5
67.5°	152.0	155.3	174.3	135.4	114.4
70°	135.0	135.0	140.3	104.8	87.2
72.5°	118.8	118.8	114.0	85.3	66.8
75°	94.6	94.6	86.1	59.1	40.4
77.5°	72.9	72.1	65.9	44.1	29.3
80°	58.5	58.5	53.2	34.8	23.4
82.5°	45.7	45.7	41.2	27.2	17.4
85°	26.6	26.6	24.4	15.8	9.6
87.5°	9.6	10.2	10.7	6.2	5.3
90°	1.4	4.0	10.8	5.4	5.4
92.5°	5.7	27.4	60.6	26.8	17.3
95°	13.5	53.2	177.2	91.3	62.2
97.5°	23.5	58.4	265.1	210.8	155.3
100°	31.1	62.8	292.1	296.1	229.9
102.5°	37.6	67.2	299.7	368.8	312.2
105°	48.7	73.8	298.9	453.8	423.3
107.5°	60.1	83.3	281.9	497.9	505.3
110°	67.6	88.8	267.8	509.3	541.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	75.2	95.3	254.8	502.1	550.8
115°	86.6	105.1	239.4	477.6	545.1
117.5°	97.7	114.6	228.8	443.7	518.6
120°	104.1	120.0	224.5	420.9	493.7
122.5°	110.6	126.5	221.3	398.2	469.9
125°	120.4	134.9	217.8	368.0	434.2
127.5°	128.2	143.0	214.8	343.7	399.5
130°	132.5	148.4	213.7	328.5	380.1
132.5°	136.9	152.7	212.6	315.4	361.7
135°	143.4	157.9	211.0	297.1	336.8
137.5°	150.1	164.4	210.7	283.4	316.0
140°	155.5	168.8	209.6	272.6	303.0
142.5°	159.9	172.0	209.6	264.9	291.1
145°	166.4	176.9	208.3	253.4	273.2
147.5°	172.9	183.2	208.3	243.8	260.2
150°	177.2	186.4	208.3	238.3	251.6
152.5°	181.5	188.7	208.3	233.9	244.0
155°	188.0	193.3	208.3	228.7	235.3
157.5°	192.9	197.9	208.3	224.1	228.8
160°	196.1	200.1	208.3	221.9	224.5
162.5°	199.4	202.3	208.3	219.7	222.4
165°	202.9	205.5	208.3	216.5	219.1
167.5°	206.1	207.4	209.6	215.1	216.1
170°	208.3	209.6	209.6	215.1	215.1
172.5°	209.4	209.6	209.6	213.9	212.9
175°	211.0	211.0	209.6	212.3	212.3
177.5°	211.0	211.0	209.9	212.1	211.0
180°	211.0	211.0	211.0	211.0	211.0

(END OF REPORT)