

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: P518334

Luminaire Tested: **SQ4-BB-025U-075D-840-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P518334
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G2-2009-966-12)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-BB-025U-075D-840-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH BLACK BAFFLE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

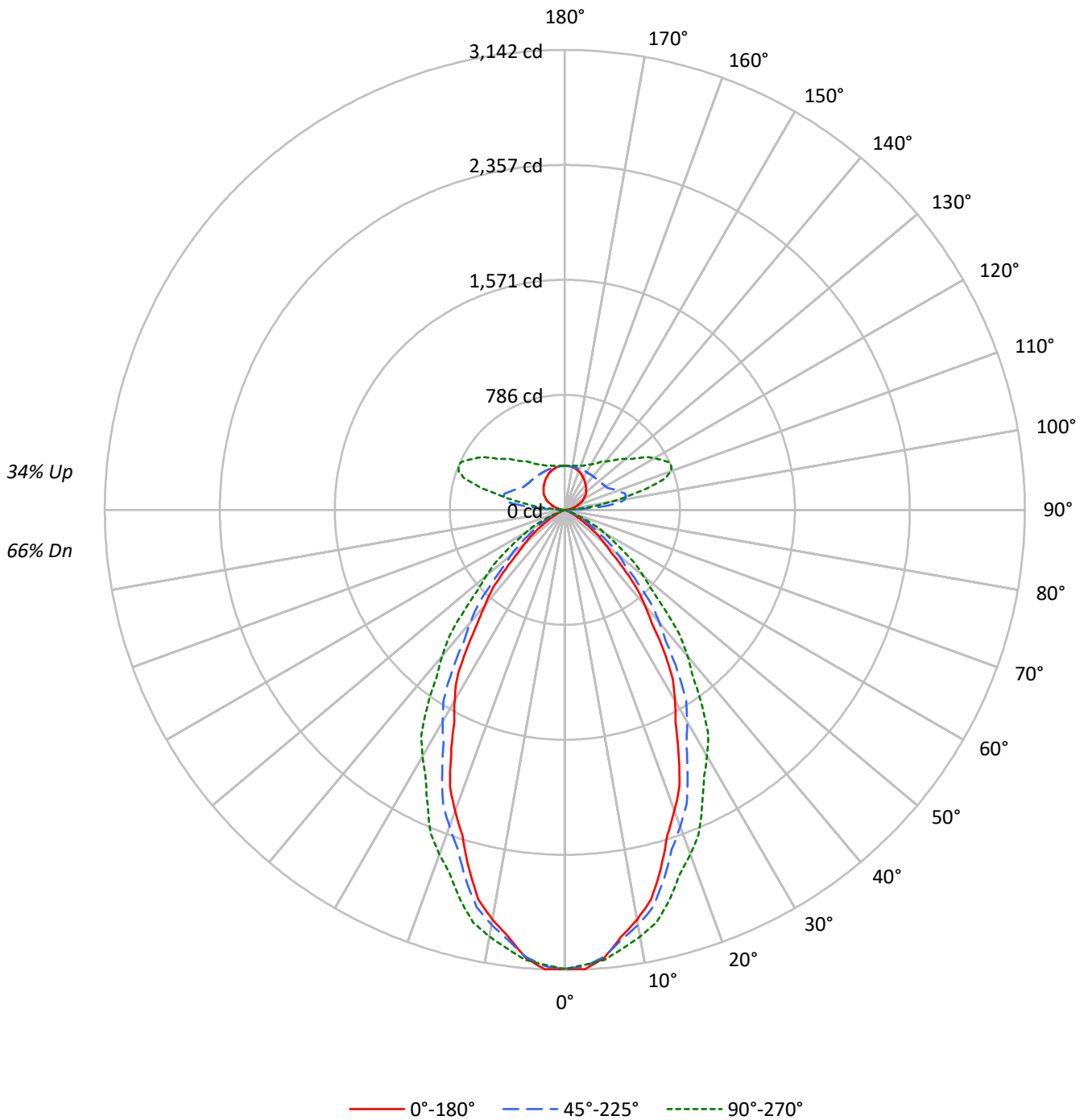
Lumens per Lamp: N/A
Luminaire Lumens: 5692.5 lumens
Efficiency: N/A
Efficacy: 87.7 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 64.9
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	50	30	10	0	
RCR																						
0	111	111	111	111	104	104	104	104	92	92	92	81	81	81	71	71	71	66				
1	104	100	97	94	98	95	92	89	84	82	80	75	73	72	66	65	64	60				
2	96	90	85	81	91	86	81	77	77	73	71	69	66	64	61	59	58	54				
3	90	82	75	71	84	78	72	68	70	66	62	63	60	57	56	54	52	49				
4	83	74	67	62	79	71	65	60	64	59	56	58	54	51	52	49	47	44				
5	78	67	60	55	73	64	58	53	59	54	50	53	49	46	48	45	43	40				
6	72	62	55	49	68	59	53	48	54	49	45	49	45	42	45	42	39	37				
7	68	57	50	45	64	54	48	43	50	45	41	46	41	38	42	38	36	34				
8	63	52	45	41	60	50	44	39	46	41	37	43	38	35	39	36	33	31				
9	60	48	42	37	57	47	40	36	43	38	34	40	35	32	37	33	31	29				
10	56	45	38	34	53	43	37	33	40	35	32	37	33	30	34	31	28	27				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14461	14461	14461
5°	14229	14194	14299
10°	13313	13491	13867
15°	12103	12487	13182
20°	10744	11302	12292
25°	9356	10097	11294
30°	8014	8895	10349
35°	6645	7550	9207
40°	5105	6037	7845
45°	3691	4571	6313
50°	2514	3407	5006
55°	1634	2464	3891
60°	937	1735	2812
65°	248	1060	1423
70°	123	328	409
75°	53	27	0
80°	40	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	286.1	5.0
10°-20°	731.6	12.9
20°-30°	915.9	16.1
30°-40°	846.0	14.9
40°-50°	568.5	10.0
50°-60°	293.6	5.2
60°-70°	92.0	1.6
70°-80°	5.8	0.1
80°-90°	1.7	0.0
90°-100°	146.7	2.6
100°-110°	385.7	6.8
110°-120°	400.0	7.0
120°-130°	320.8	5.6
130°-140°	251.7	4.4
140°-150°	193.2	3.4
150°-160°	139.2	2.4
160°-170°	85.1	1.5
170°-180°	28.8	0.5
0°-30°	1933.6	34.0
0°-40°	2779.6	48.8
0°-60°	3641.7	64.0
0°-90°	3741.2	65.7
90°-120°	932.4	16.4
90°-150°	1698.2	29.8
90°-180°	1951.0	34.3
0°-180°	5692.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3135	3135	3135	3135	3135	
5°	3073	3042	3065	3076	3088	285
15°	2534	2525	2615	2702	2760	706
25°	1838	1853	1984	2119	2219	843
35°	1180	1210	1341	1498	1635	731
45°	566	600	701	837	968	444
55°	203	237	306	393	484	190
65°	23	44	97	117	130	38
75°	3	3	2	0	0	4
85°	0	0	0	0	0	0
90°	2	6	15	8	8	2
95°	19	76	253	130	89	22
105°	70	105	426	647	604	74
115°	124	150	342	682	778	122
125°	172	192	311	525	620	152
135°	205	225	301	424	480	158
145°	237	252	297	362	390	149
155°	268	276	297	326	336	123
165°	290	293	297	309	313	82
175°	301	301	299	303	303	29
180°	301	301	301	301	301	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3134.8	3134.8	3134.8	3134.8	3134.8
2.5°	3142.1	3112.5	3120.3	3120.1	3111.8
5°	3072.7	3041.5	3065.1	3076.0	3087.8
7.5°	2942.8	2918.5	2963.8	2997.7	3022.3
10°	2842.1	2821.4	2880.0	2926.3	2960.4
12.5°	2725.7	2709.6	2780.6	2844.0	2887.6
15°	2534.3	2525.4	2614.6	2702.4	2760.2
17.5°	2329.2	2328.9	2430.8	2539.8	2609.5
20°	2188.5	2192.9	2302.2	2422.4	2503.9
22.5°	2047.7	2058.1	2174.8	2300.1	2393.5
25°	1838.1	1853.0	1983.7	2119.4	2218.8
27.5°	1636.7	1658.4	1796.0	1937.0	2058.0
30°	1504.5	1529.7	1669.8	1818.2	1942.8
32.5°	1374.7	1404.6	1541.2	1698.2	1825.1
35°	1179.9	1209.6	1340.7	1498.5	1634.9
37.5°	978.8	1007.9	1135.9	1291.3	1438.7
40°	847.8	880.4	1002.5	1153.0	1302.8
42.5°	728.9	761.5	876.3	1024.2	1165.7
45°	565.7	599.8	700.7	837.1	967.6
47.5°	430.4	467.5	556.0	679.4	798.3
50°	350.3	387.4	474.7	583.5	697.6
52.5°	286.0	321.9	400.7	503.2	607.9
55°	203.2	237.3	306.4	393.3	483.8
57.5°	140.4	169.8	231.7	304.3	375.2
60°	101.6	129.8	188.1	247.0	304.8
62.5°	67.6	93.4	150.4	195.6	234.5
65°	22.7	43.5	97.1	117.1	130.4
67.5°	11.5	13.9	51.0	53.8	58.2
70°	9.1	9.1	24.3	25.9	30.3
72.5°	6.7	6.7	9.7	12.5	13.3
75°	3.0	3.0	1.5	0.0	0.0
77.5°	1.5	1.5	1.2	0.0	0.0
80°	1.5	1.5	0.0	0.0	0.0
82.5°	0.3	0.3	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.4	1.1	3.1	1.5	1.5
90°	1.9	5.7	15.4	7.7	7.7
92.5°	8.1	39.1	86.5	38.3	24.7
95°	19.3	75.9	252.8	130.3	88.8
97.5°	33.6	83.4	378.2	300.8	221.5
100°	44.4	89.7	416.8	422.4	328.1
102.5°	53.6	95.9	427.6	526.2	445.4
105°	69.5	105.3	426.5	647.4	604.0
107.5°	85.7	118.9	402.2	710.4	721.0
110°	96.5	126.7	382.1	726.6	771.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	107.3	136.0	363.6	716.4	785.8
115°	123.5	149.9	341.6	681.5	777.7
117.5°	139.3	163.5	326.5	633.1	739.9
120°	148.6	171.2	320.3	600.6	704.4
122.5°	157.9	180.5	315.7	568.1	670.4
125°	171.8	192.5	310.7	525.1	619.5
127.5°	182.9	204.1	306.5	490.4	570.1
130°	189.1	211.8	304.9	468.7	542.3
132.5°	195.3	217.9	303.4	450.0	516.0
135°	204.6	225.3	301.0	423.9	480.5
137.5°	214.2	234.6	300.7	404.4	450.8
140°	221.9	240.8	299.1	388.9	432.3
142.5°	228.1	245.5	299.1	377.9	415.3
145°	237.4	252.5	297.2	361.5	389.8
147.5°	246.6	261.3	297.2	347.9	371.3
150°	252.8	266.0	297.2	340.1	358.9
152.5°	259.0	269.2	297.2	333.8	348.1
155°	268.2	275.8	297.2	326.4	335.8
157.5°	275.2	282.4	297.2	319.7	326.5
160°	279.8	285.5	297.2	316.6	320.3
162.5°	284.5	288.6	297.2	313.5	317.3
165°	289.5	293.2	297.2	308.9	312.6
167.5°	294.1	296.0	299.1	306.9	308.4
170°	297.2	299.1	299.1	306.8	306.8
172.5°	298.7	299.1	299.1	305.3	303.8
175°	301.0	301.0	299.1	303.0	303.0
177.5°	301.0	301.0	299.5	302.6	301.0
180°	301.0	301.0	301.0	301.0	301.0

(END OF REPORT)