

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: P519140

Luminaire Tested: **SQ4-WB-050U-125D-830-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519140
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-050U-125D-830-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

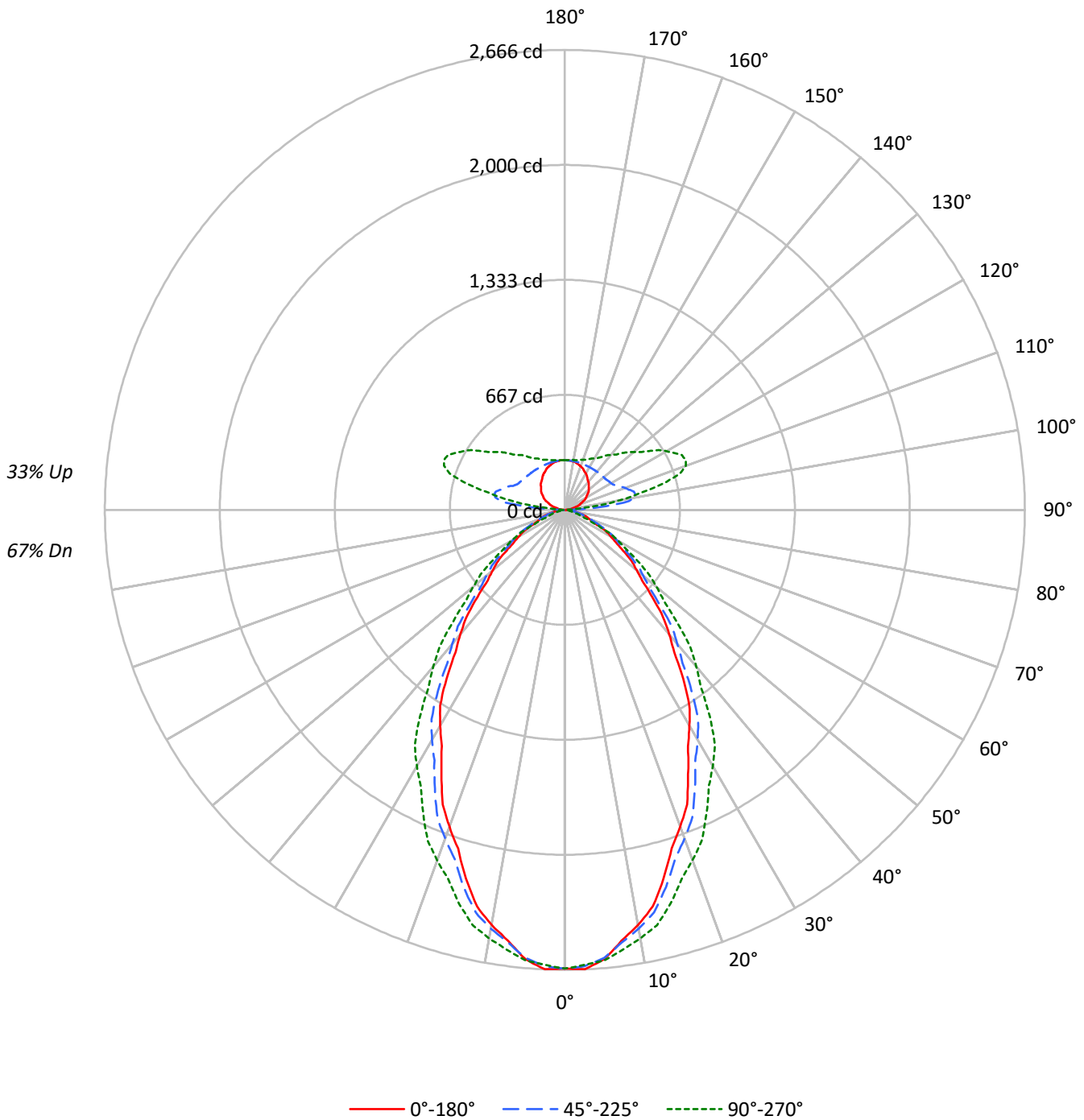
Lumens per Lamp: N/A
Luminaire Lumens: 5755.9 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 55.9
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	105	105	105	105	93	93	93	82	82	82	72	72	72	67				
1	103	99	96	93	97	94	91	88	84	82	80	75	73	71	66	65	64	60				
2	95	89	83	79	90	84	79	75	75	72	69	67	65	62	60	58	56	53				
3	88	79	73	67	83	75	70	65	68	63	60	61	58	55	55	52	50	47				
4	81	72	64	59	77	68	62	57	62	57	52	56	52	48	50	47	44	41				
5	76	65	57	52	71	62	55	50	56	51	47	51	47	43	46	43	40	37				
6	70	59	51	46	66	56	49	44	51	46	42	47	42	39	42	39	36	34				
7	65	54	46	41	62	52	45	40	47	42	38	43	39	35	39	36	33	31				
8	61	50	42	37	58	48	41	36	44	38	34	40	35	32	37	33	30	28				
9	57	46	39	34	54	44	37	33	40	35	31	37	33	29	34	30	28	26				
10	54	42	36	31	51	41	34	30	38	32	29	35	30	27	32	28	25	24				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	24532	24532	24532
5°	24226	24140	24281
10°	22888	23096	23632
15°	21129	21620	22590
20°	19188	19910	21227
25°	17210	18149	19776
30°	15388	16395	18272
35°	13456	14429	16493
40°	11326	12226	14277
45°	9347	10154	11920
50°	7804	8507	9931
55°	6626	7301	8202
60°	5663	6329	6545
65°	4508	5322	4229
70°	3998	4154	2582
75°	3700	3369	1579
80°	3411	3098	1365
85°	3091	2837	1112



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.9	4.2
10°-20°	634.4	11.0
20°-30°	821.7	14.3
30°-40°	804.6	14.0
40°-50°	615.9	10.7
50°-60°	410.4	7.1
60°-70°	224.0	3.9
70°-80°	93.3	1.6
80°-90°	27.5	0.5
90°-100°	138.2	2.4
100°-110°	375.5	6.5
110°-120°	386.1	6.7
120°-130°	308.7	5.4
130°-140°	242.5	4.2
140°-150°	186.0	3.2
150°-160°	133.7	2.3
160°-170°	81.8	1.4
170°-180°	27.6	0.5
0°-30°	1700.0	29.5
0°-40°	2504.6	43.5
0°-60°	3530.9	61.3
0°-90°	3875.7	67.3
90°-120°	899.8	15.6
90°-150°	1637.0	28.4
90°-180°	1880.0	32.7
0°-180°	5755.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2659	2659	2659	2659	2659	
5°	2616	2590	2606	2612	2622	243
15°	2212	2204	2264	2325	2365	618
25°	1691	1695	1783	1860	1943	777
35°	1195	1200	1281	1367	1464	743
45°	716	730	778	837	914	559
55°	412	429	454	471	510	373
65°	206	224	244	213	194	215
75°	104	104	94	65	44	111
85°	29	29	27	17	10	32
90°	1	4	6	8	8	3
95°	20	76	241	105	70	22
105°	67	104	413	629	592	71
115°	118	144	330	658	749	117
125°	163	186	299	504	594	145
135°	196	218	291	410	463	152
145°	227	243	287	349	375	142
155°	256	266	285	313	322	118
165°	278	281	286	298	299	78
175°	288	289	287	291	290	27
180°	288	288	288	288	288	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2659.0	2659.0	2659.0	2659.0	2659.0
2.5°	2665.5	2641.8	2647.8	2647.6	2640.3
5°	2615.8	2589.6	2606.5	2612.5	2621.7
7.5°	2518.7	2498.9	2529.7	2552.5	2571.0
10°	2443.1	2426.0	2465.3	2498.5	2522.5
12.5°	2355.4	2341.0	2389.7	2434.3	2465.5
15°	2212.1	2204.1	2263.5	2325.0	2365.0
17.5°	2058.8	2054.9	2123.0	2194.9	2246.0
20°	1954.3	1953.1	2027.8	2102.6	2162.0
22.5°	1848.8	1851.3	1929.8	2007.6	2075.2
25°	1690.6	1695.2	1782.8	1860.5	1942.6
27.5°	1544.3	1546.3	1636.9	1719.0	1806.6
30°	1444.4	1450.1	1538.9	1623.8	1715.1
32.5°	1344.5	1351.2	1438.1	1525.9	1619.0
35°	1194.7	1200.4	1281.1	1367.3	1464.3
37.5°	1040.3	1048.0	1119.6	1201.1	1296.5
40°	940.4	951.8	1015.1	1091.9	1185.4
42.5°	844.2	858.4	917.1	989.9	1074.3
45°	716.4	730.1	778.2	837.1	913.6
47.5°	606.2	622.0	659.0	709.7	774.9
50°	543.7	558.5	592.7	630.3	691.9
52.5°	488.6	503.5	533.9	562.9	615.3
55°	411.9	429.0	453.9	471.1	509.9
57.5°	348.9	365.3	385.0	392.8	416.3
60°	306.9	325.1	343.0	342.1	354.7
62.5°	268.6	284.1	302.0	289.6	290.3
65°	206.5	223.6	243.8	213.1	193.7
67.5°	166.8	170.5	191.3	148.6	125.5
70°	148.2	148.2	154.0	115.1	95.7
72.5°	130.4	130.4	125.1	93.6	73.3
75°	103.8	103.8	94.5	64.9	44.3
77.5°	80.0	79.1	72.3	48.4	32.2
80°	64.2	64.2	58.3	38.2	25.7
82.5°	50.2	50.2	45.3	29.9	19.1
85°	29.2	29.2	26.8	17.3	10.5
87.5°	10.5	11.0	10.6	7.2	6.3
90°	0.9	3.6	6.5	8.3	8.3
92.5°	8.3	37.8	65.7	28.2	23.9
95°	20.4	75.6	240.7	104.8	70.4
97.5°	33.7	83.5	369.1	287.1	201.7
100°	42.6	88.8	408.3	413.9	334.3
102.5°	51.5	94.0	418.7	511.9	441.7
105°	66.7	103.8	413.0	628.8	591.7
107.5°	82.4	115.2	389.1	689.1	699.4
110°	93.5	123.4	371.3	701.0	745.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	103.1	131.6	353.5	691.1	757.9
115°	118.5	143.9	330.5	657.6	749.1
117.5°	133.0	157.2	315.9	610.1	713.1
120°	142.6	166.1	309.3	578.2	680.5
122.5°	150.7	174.3	304.8	546.3	645.0
125°	163.0	185.6	299.1	503.9	594.4
127.5°	173.9	196.3	295.9	471.8	549.4
130°	180.6	202.3	294.4	451.6	521.3
132.5°	187.2	208.9	293.0	434.4	496.1
135°	196.3	218.0	290.7	410.4	463.0
137.5°	206.1	225.8	289.6	389.3	433.5
140°	212.0	231.0	288.9	375.9	415.7
142.5°	218.0	235.5	288.1	365.4	398.7
145°	226.8	243.1	287.0	348.7	375.0
147.5°	236.8	250.8	286.1	335.6	356.3
150°	243.5	255.3	286.1	328.1	344.4
152.5°	248.7	259.0	285.4	321.4	334.8
155°	256.5	265.5	285.2	313.2	322.2
157.5°	264.1	271.1	285.2	307.6	314.4
160°	268.5	274.9	285.2	303.8	309.3
162.5°	273.0	277.8	285.9	300.8	304.8
165°	277.8	281.4	286.1	298.2	299.1
167.5°	282.8	284.6	287.0	295.0	295.7
170°	284.3	286.1	287.0	293.5	293.5
172.5°	285.7	286.8	287.0	292.0	292.0
175°	288.0	288.9	287.0	290.7	289.8
177.5°	288.7	288.7	286.5	289.4	288.0
180°	288.0	288.0	288.0	288.0	288.0

(END OF REPORT)