

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: P518673

Luminaire Tested: **SQ4-BB-0U-125D-930-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P518673
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (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-0U-125D-930-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH BLACK BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

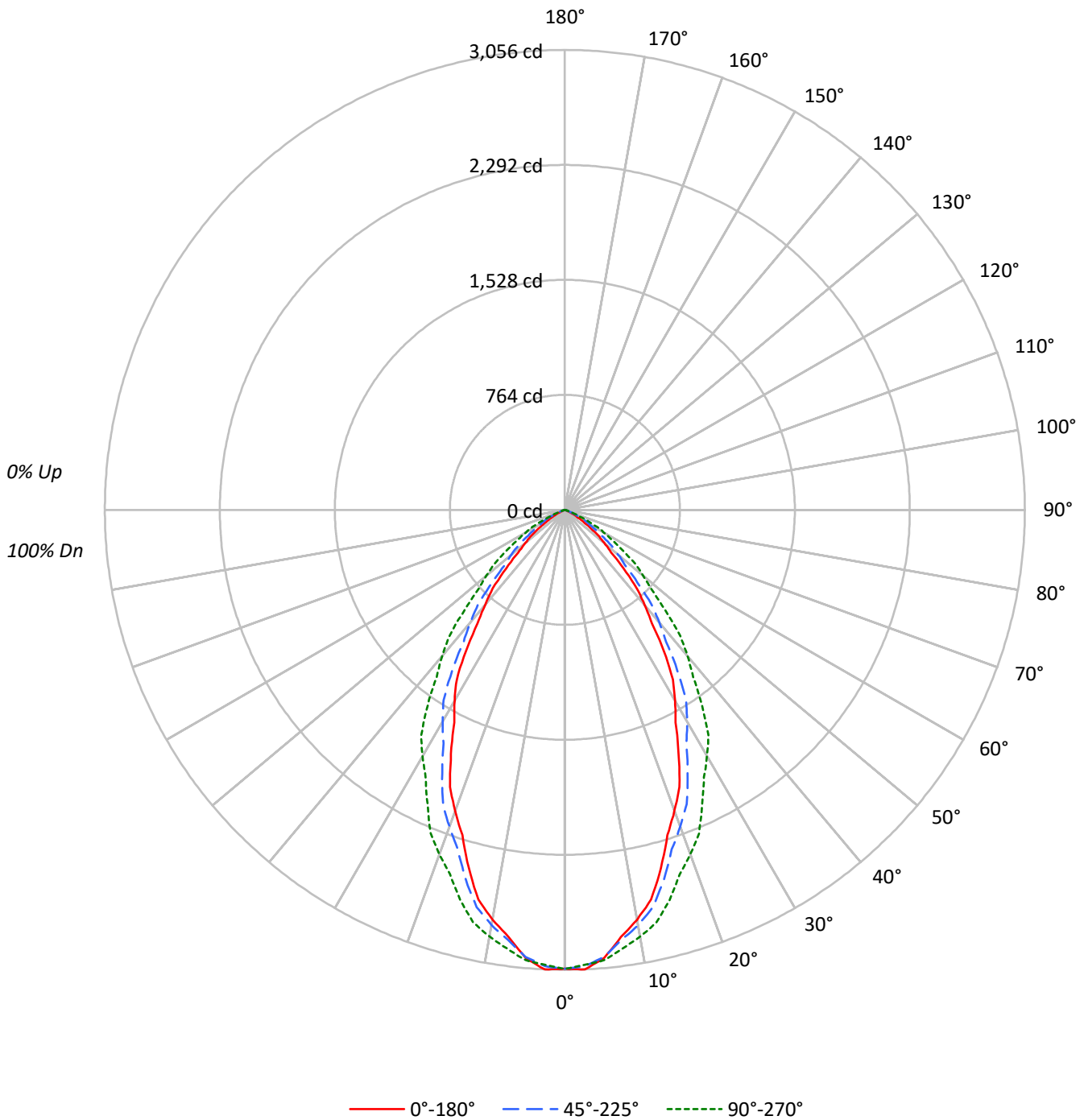
Lumens per Lamp: N/A
Luminaire Lumens: 3637.8 lumens
Efficiency: N/A
Efficacy: 52.2 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Direct

Input Watts (W): 69.7
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100	
1	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91			91	
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82			82	
3	99	91	85	81	97	90	84	80	87	82	79	85	81	77	82	79	76	74			74	
4	93	84	77	72	91	83	76	72	80	75	71	78	74	70	76	72	69	67			67	
5	87	77	70	65	85	76	70	65	74	68	64	72	67	64	71	66	63	61			61	
6	82	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	58	56			56	
7	77	66	59	54	75	65	59	54	64	58	53	62	57	53	61	56	53	51			51	
8	72	61	54	50	71	61	54	49	59	53	49	58	53	49	57	52	49	47			47	
9	68	57	50	46	67	57	50	46	56	50	46	55	49	45	54	49	45	44			44	
10	65	54	47	42	63	53	47	42	52	46	42	51	46	42	51	46	42	41			41	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18757	18757	18757
5°	18455	18409	18546
10°	17267	17498	17986
15°	15698	16196	17098
20°	13935	14659	15943
25°	12135	13096	14648
30°	10394	11536	13423
35°	8619	9793	11942
40°	6622	7830	10176
45°	4787	5929	8187
50°	3261	4419	6493
55°	2120	3196	5047
60°	1215	2250	3647
65°	322	1374	1847
70°	160	424	531
75°	71	36	0
80°	53	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.3	7.7
10°-20°	711.7	19.6
20°-30°	891.0	24.5
30°-40°	823.0	22.6
40°-50°	553.0	15.2
50°-60°	285.6	7.9
60°-70°	89.5	2.5
70°-80°	5.7	0.2
80°-90°	0.1	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1881.0	51.7
0°-40°	2703.9	74.3
0°-60°	3542.5	97.4
0°-90°	3637.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3637.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3050	3050	3050	3050	3050	
5°	2989	2959	2982	2992	3004	277
15°	2465	2457	2543	2629	2685	687
25°	1788	1802	1930	2062	2158	820
35°	1148	1177	1304	1458	1590	711
45°	550	584	682	814	941	432
55°	198	231	298	383	471	184
65°	22	42	94	114	127	37
75°	3	3	2	0	0	4
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3049.5	3049.5	3049.5	3049.5	3049.5
2.5°	3056.5	3027.7	3035.3	3035.1	3027.0
5°	2989.0	2958.7	2981.6	2992.2	3003.7
7.5°	2862.7	2839.0	2883.0	2916.0	2940.0
10°	2764.7	2744.5	2801.6	2846.6	2879.8
12.5°	2651.4	2635.8	2704.8	2766.6	2809.0
15°	2465.2	2456.6	2543.4	2628.8	2685.1
17.5°	2265.8	2265.5	2364.6	2470.6	2538.4
20°	2128.9	2133.2	2239.5	2356.4	2435.7
22.5°	1992.0	2002.1	2115.6	2237.4	2328.3
25°	1788.1	1802.5	1929.7	2061.7	2158.4
27.5°	1592.1	1613.2	1747.1	1884.3	2002.0
30°	1463.5	1488.0	1624.3	1768.7	1889.9
32.5°	1337.2	1366.4	1499.2	1651.9	1775.4
35°	1147.8	1176.6	1304.2	1457.7	1590.4
37.5°	952.2	980.4	1105.0	1256.1	1399.5
40°	824.7	856.4	975.2	1121.6	1267.3
42.5°	709.0	740.8	852.4	996.3	1133.9
45°	550.3	583.5	681.6	814.3	941.2
47.5°	418.7	454.8	540.8	660.9	776.6
50°	340.8	376.9	461.8	567.6	678.6
52.5°	278.2	313.2	389.8	489.5	591.3
55°	197.7	230.9	298.0	382.6	470.6
57.5°	136.6	165.2	225.4	296.0	365.0
60°	98.8	126.3	182.9	240.3	296.5
62.5°	65.8	90.9	146.4	190.3	228.1
65°	22.1	42.3	94.4	113.9	126.9
67.5°	11.2	13.5	49.6	52.3	56.7
70°	8.9	8.9	23.6	25.2	29.5
72.5°	6.5	6.5	9.4	12.1	13.0
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°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)