

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: P563556

Luminaire Tested: **SQ4-PP3-0U-125D-935-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563556
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-0U-125D-935-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

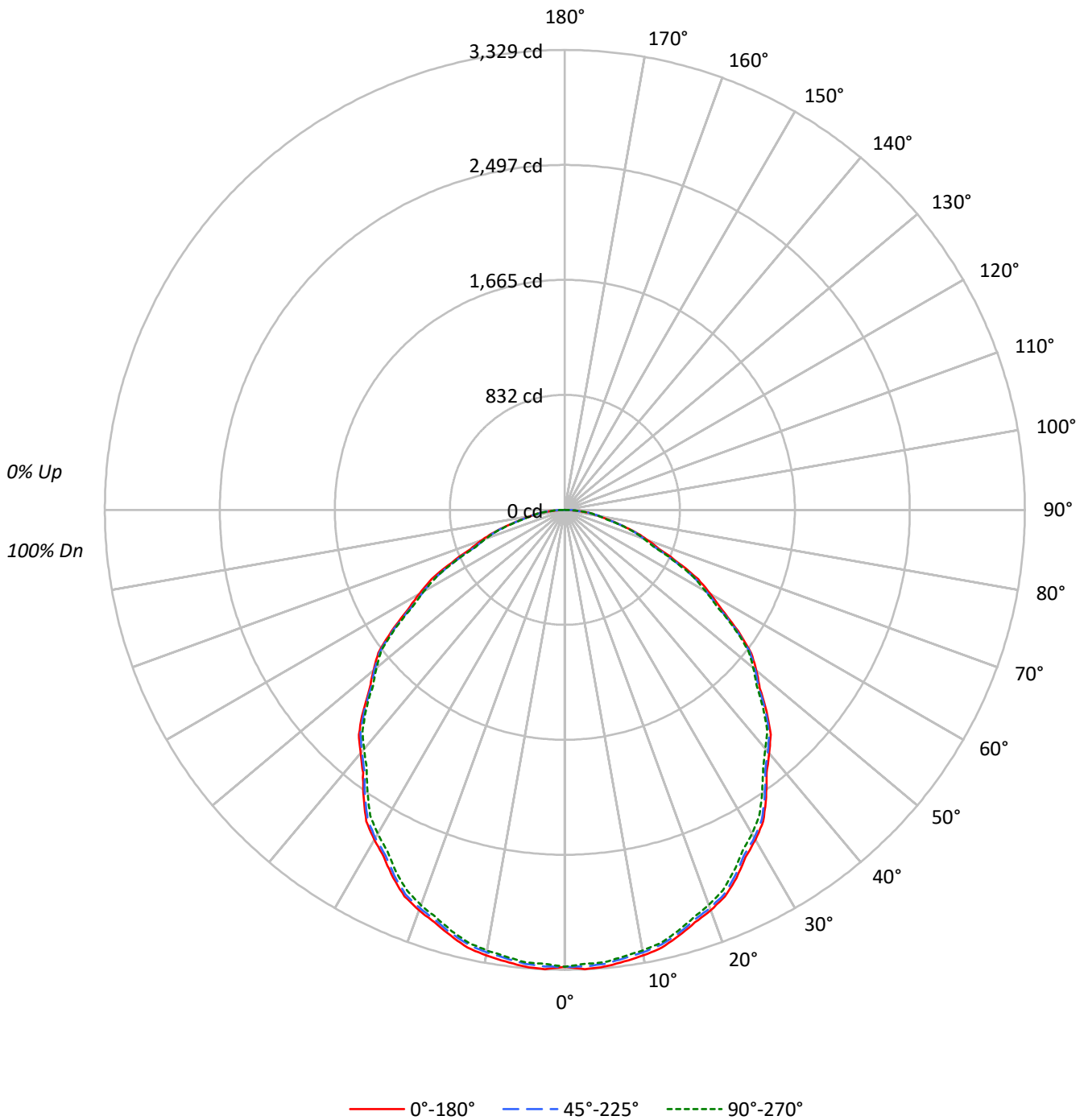
Lumens per Lamp: N/A
Luminaire Lumens: 8465.9 lumens
Efficiency: N/A
Efficacy: 92.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 91.1
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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85			85	
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74	72			72	
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61			61	
4	84	72	64	57	82	71	63	57	69	62	56	66	60	56	64	59	55	53			53	
5	77	65	56	50	75	64	56	49	62	54	49	60	53	48	58	52	48	46			46	
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40			40	
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36			36	
8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34	32			32	
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29			29	
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26			26	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15259	15259	15259
5°	15371	15277	15223
10°	15345	15236	15168
15°	15243	15160	15077
20°	15142	15057	14943
25°	14962	14859	14711
30°	14685	14608	14423
35°	14301	14203	14024
40°	13844	13757	13599
45°	13465	13371	13239
50°	12982	12899	12775
55°	12310	12148	12054
60°	11207	10886	10832
65°	9873	9462	9430
70°	8524	8172	8172
75°	7338	7235	7131
80°	6469	6546	6392
85°	5065	5526	5526



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	312.8	3.7
10°-20°	893.1	10.5
20°-30°	1337.7	15.8
30°-40°	1569.1	18.5
40°-50°	1574.0	18.6
50°-60°	1342.7	15.9
60°-70°	875.7	10.3
70°-80°	439.3	5.2
80°-90°	121.6	1.4
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°	2543.5	30.0
0°-40°	4112.6	48.6
0°-60°	7029.3	83.0
0°-90°	8465.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8465.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3308	3308	3308	3308	3308	
5°	3319	3288	3299	3287	3287	315
15°	3192	3161	3174	3163	3157	900
25°	2940	2906	2919	2893	2890	1352
35°	2540	2514	2522	2493	2490	1586
45°	2064	2050	2050	2029	2029	1589
55°	1531	1525	1510	1502	1499	1360
65°	904	888	867	861	864	903
75°	412	412	406	403	400	447
85°	96	104	104	104	104	116
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3307.7	3307.7	3307.7	3307.7	3307.7
2.5°	3328.6	3301.4	3307.7	3302.7	3289.1
5°	3319.3	3288.1	3299.0	3287.4	3287.4
7.5°	3296.7	3262.7	3273.5	3261.9	3261.3
10°	3275.8	3241.8	3252.6	3241.0	3238.1
12.5°	3245.7	3211.6	3224.8	3210.9	3210.3
15°	3191.7	3160.6	3174.3	3162.6	3157.0
17.5°	3130.9	3096.8	3113.5	3097.2	3094.9
20°	3084.5	3050.5	3067.1	3043.9	3043.9
22.5°	3028.8	2994.8	3013.7	2983.6	2983.6
25°	2939.5	2905.5	2919.2	2893.1	2890.2
27.5°	2833.4	2800.0	2814.3	2784.7	2784.1
30°	2756.9	2725.7	2742.4	2710.4	2707.6
32.5°	2673.4	2644.5	2656.6	2624.6	2621.8
35°	2539.5	2514.0	2522.1	2493.0	2490.2
37.5°	2398.6	2372.5	2381.8	2356.8	2355.7
40°	2298.9	2281.9	2284.4	2263.9	2258.3
42.5°	2206.1	2186.8	2189.3	2169.0	2167.8
45°	2064.0	2049.9	2049.6	2029.3	2029.3
47.5°	1913.3	1902.5	1899.4	1882.6	1882.0
50°	1808.9	1800.4	1797.3	1782.8	1780.0
52.5°	1699.9	1696.0	1686.0	1673.8	1673.3
55°	1530.6	1525.0	1510.4	1501.6	1498.8
57.5°	1346.8	1335.5	1319.0	1306.3	1308.6
60°	1214.7	1203.3	1179.9	1174.1	1174.1
62.5°	1087.1	1073.5	1050.0	1042.0	1046.5
65°	904.5	887.5	866.8	861.1	863.9
67.5°	738.7	723.3	701.0	700.9	698.6
70°	632.0	623.5	605.9	605.9	605.9
72.5°	536.9	532.9	520.1	520.0	517.8
75°	411.7	411.7	405.9	402.9	400.1
77.5°	308.4	309.6	306.7	303.7	298.6
80°	243.5	249.2	246.4	243.4	240.6
82.5°	183.2	188.9	188.4	183.2	182.6
85°	95.7	104.2	104.4	104.4	104.4
87.5°	25.5	34.6	37.1	37.2	39.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)