

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: P564209

Luminaire Tested: **SQ4-PR1-0U-125D-830-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564209
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-0U-125D-830-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

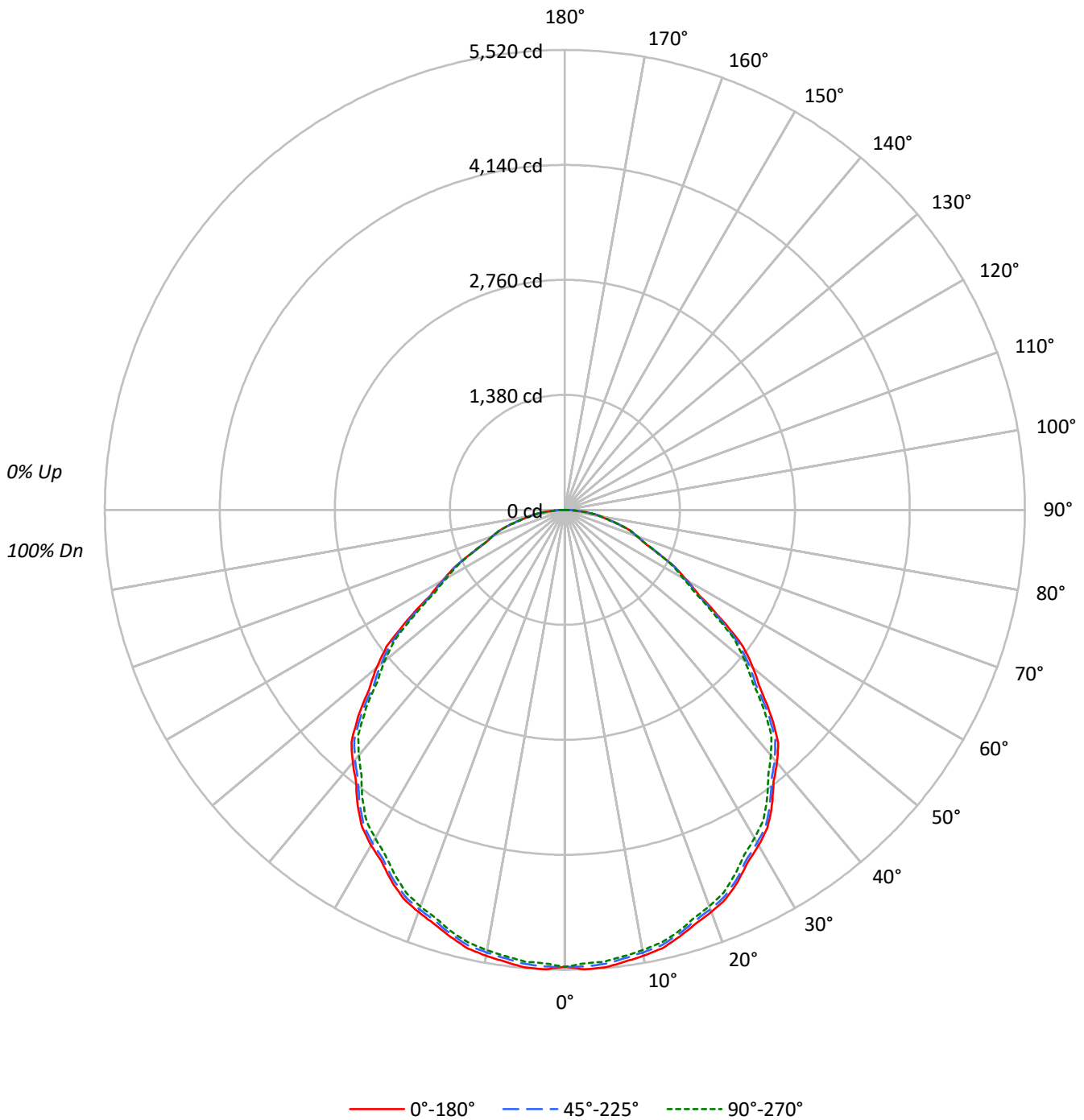
Lumens per Lamp: N/A
Luminaire Lumens: 13713.3 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Direct

Input Watts (W): 140.8
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



TEST NUMBER: P564209
CATALOG NUMBER: SQ4-PR1-0U-125D-830-1D-UNV-STD-W-12

Luminous Intensity Polar Plot





TEST NUMBER: P564209

CATALOG NUMBER: SQ4-PR1-0U-125D-830-1D-UNV-STD-W-12

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	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85				85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72				72
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62				62
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54				54
5	78	66	57	51	76	65	57	50	63	55	50	61	54	49	59	53	49	47				47
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	41				41
7	67	54	46	40	65	53	45	39	52	44	39	50	44	39	49	43	39	37				37
8	63	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33				33
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30				30
10	55	42	34	29	54	41	34	29	40	34	29	40	33	29	39	33	29	27				27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16870	16870	16870
5°	17022	16891	16803
10°	16968	16850	16762
15°	16894	16788	16698
20°	16809	16701	16577
25°	16690	16578	16386
30°	16510	16393	16158
35°	16267	16125	15894
40°	15896	15725	15440
45°	15248	14981	14673
50°	14106	13767	13496
55°	12312	12033	11780
60°	10375	10288	10084
65°	8974	9008	8940
70°	8242	8284	8284
75°	7916	7916	7972
80°	7447	7531	7447
85°	6002	6669	6669



TEST NUMBER: P564209

CATALOG NUMBER: SQ4-PR1-0U-125D-830-1D-UNV-STD-W-12

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	518.7	3.8
10°-20°	1484.2	10.8
20°-30°	2238.6	16.3
30°-40°	2667.3	19.5
40°-50°	2629.7	19.2
50°-60°	2009.8	14.7
60°-70°	1243.7	9.1
70°-80°	706.4	5.2
80°-90°	214.9	1.6
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°	4241.5	30.9
0°-40°	6908.8	50.4
0°-60°	11548.3	84.2
0°-90°	13713.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13713.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5486	5486	5486	5486	5486	
5°	5514	5454	5471	5452	5443	523
15°	5306	5251	5273	5254	5245	1497
25°	4919	4858	4886	4833	4829	2264
35°	4333	4282	4295	4238	4234	2704
45°	3506	3460	3444	3383	3374	2686
55°	2296	2259	2244	2206	2197	2058
65°	1233	1224	1238	1228	1228	1249
75°	666	666	666	671	671	704
85°	170	179	189	189	189	204
90°	0	0	0	0	0	



TEST NUMBER: P564209

CATALOG NUMBER: SQ4-PR1-0U-125D-830-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5485.6	5485.6	5485.6	5485.6	5485.6
2.5°	5519.6	5471.5	5485.6	5473.6	5447.8
5°	5513.9	5453.9	5471.4	5452.3	5443.0
7.5°	5471.4	5412.3	5429.8	5410.8	5405.2
10°	5433.6	5378.2	5395.8	5376.7	5367.4
12.5°	5392.0	5332.9	5354.2	5331.3	5322.1
15°	5306.0	5250.6	5272.9	5253.8	5244.6
17.5°	5211.5	5152.4	5174.7	5152.7	5140.7
20°	5135.9	5080.5	5102.9	5069.7	5065.1
22.5°	5052.8	4997.3	5019.7	4975.3	4974.3
25°	4918.6	4858.5	4885.5	4833.4	4828.8
27.5°	4758.9	4703.4	4725.8	4672.8	4667.2
30°	4649.3	4593.8	4616.2	4559.3	4550.0
32.5°	4524.5	4472.8	4491.5	4434.6	4429.1
35°	4332.7	4281.9	4294.9	4238.1	4233.5
37.5°	4114.4	4068.2	4075.7	4013.2	4008.6
40°	3959.4	3913.2	3916.9	3850.7	3846.0
42.5°	3789.3	3743.1	3739.3	3673.0	3668.4
45°	3505.8	3459.7	3444.4	3382.8	3373.6
47.5°	3182.7	3136.5	3108.0	3057.8	3051.3
50°	2948.3	2902.1	2877.4	2834.6	2820.7
52.5°	2695.1	2648.9	2628.0	2588.9	2575.1
55°	2296.3	2259.3	2244.3	2206.3	2197.1
57.5°	1917.3	1892.4	1888.1	1851.1	1847.4
60°	1686.8	1672.9	1672.6	1639.5	1639.5
62.5°	1490.2	1480.1	1487.4	1465.6	1461.9
65°	1233.2	1223.9	1237.9	1228.5	1228.5
67.5°	1030.0	1030.0	1038.5	1034.7	1034.7
70°	916.6	916.6	921.3	921.3	921.3
72.5°	814.6	810.9	823.1	823.0	819.3
75°	666.2	666.2	666.2	670.9	670.9
77.5°	518.8	519.7	523.5	522.5	518.8
80°	420.5	425.1	425.2	420.5	420.5
82.5°	322.2	326.9	327.0	325.9	322.2
85°	170.1	179.3	189.0	189.0	189.0
87.5°	49.1	63.9	75.6	75.5	71.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)