

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: P562865

Luminaire Tested: **SQ4-PC3-0U-125D-830-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562865
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PC3-0U-125D-830-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

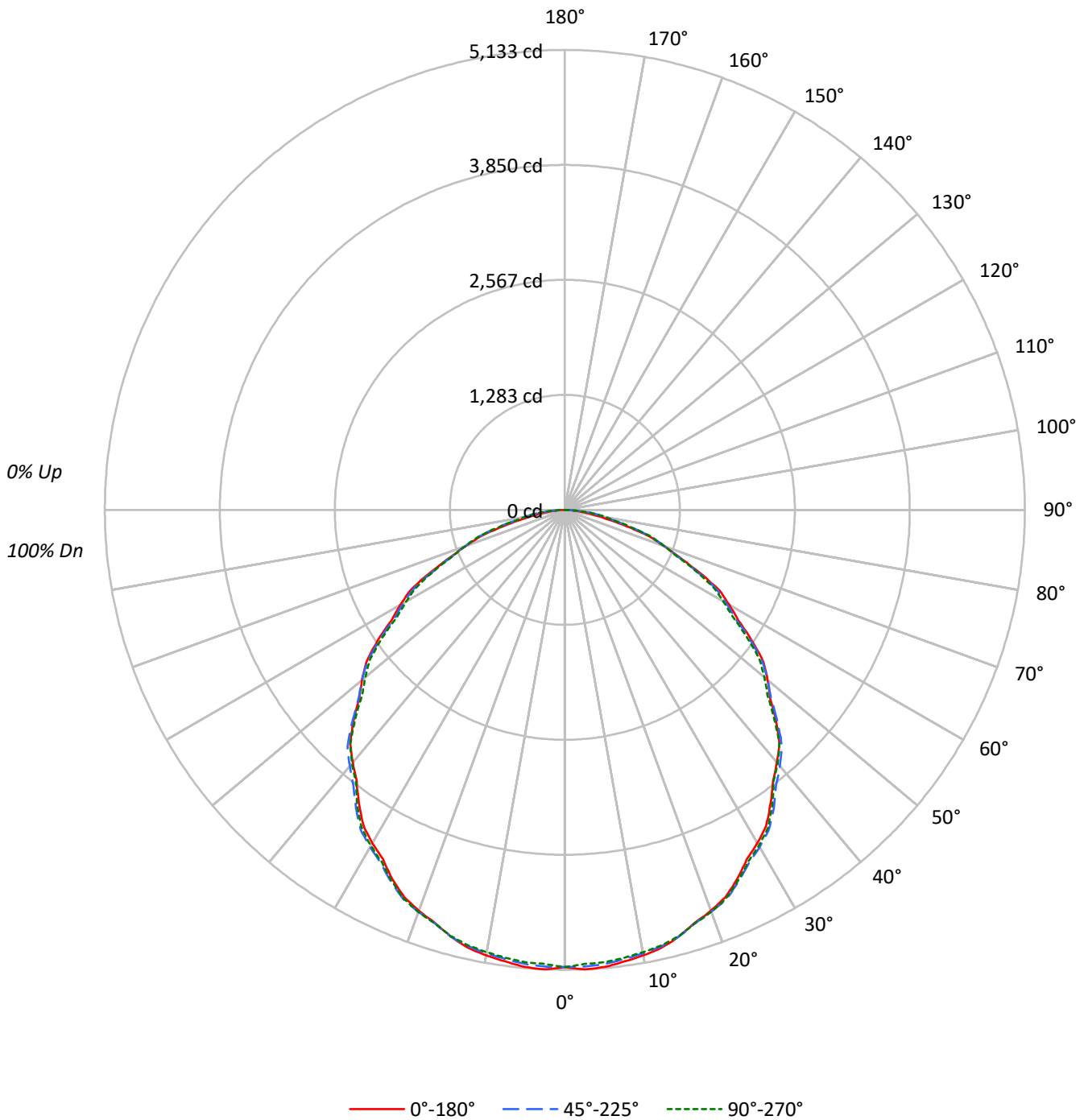
Lumens per Lamp: N/A
Luminaire Lumens: 13926.7 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Direct

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



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	54	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15693	15693	15693
5°	15812	15710	15651
10°	15773	15699	15655
15°	15690	15690	15675
20°	15587	15633	15633
25°	15440	15552	15504
30°	15252	15437	15369
35°	15025	15256	15149
40°	14777	14985	14834
45°	14508	14611	14385
50°	14129	14129	13903
55°	13680	13503	13300
60°	13019	12758	12554
65°	12034	11793	11691
70°	10537	10621	10579
75°	8478	9376	9432
80°	6025	7950	8033
85°	3666	6669	6669



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	482.9	3.5
10°-20°	1385.9	10.0
20°-30°	2098.7	15.1
30°-40°	2516.1	18.1
40°-50°	2565.6	18.4
50°-60°	2239.6	16.1
60°-70°	1603.3	11.5
70°-80°	825.8	5.9
80°-90°	208.8	1.5
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°	3967.5	28.5
0°-40°	6483.6	46.6
0°-60°	11288.7	81.1
0°-90°	13926.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13926.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5103	5103	5103	5103	5103	
5°	5122	5071	5089	5074	5070	486
15°	4928	4886	4928	4928	4923	1390
25°	4550	4518	4583	4569	4569	2094
35°	4002	3993	4063	4035	4035	2503
45°	3336	3326	3359	3317	3307	2568
55°	2551	2519	2518	2481	2481	2274
65°	1654	1617	1621	1606	1606	1636
75°	714	746	789	794	794	771
85°	104	159	189	194	189	145
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5102.9	5102.9	5102.9	5102.9	5102.9
2.5°	5133.1	5088.8	5102.9	5091.1	5072.6
5°	5121.8	5070.9	5088.7	5074.4	5069.8
7.5°	5084.9	5034.1	5057.5	5048.0	5043.3
10°	5050.9	5000.1	5027.3	5017.7	5013.1
12.5°	5005.5	4958.4	4989.5	4980.0	4979.1
15°	4928.0	4886.5	4928.0	4927.9	4923.3
17.5°	4830.7	4792.8	4837.3	4840.1	4837.3
20°	4762.7	4721.1	4776.8	4772.2	4776.8
22.5°	4679.5	4645.3	4705.0	4692.9	4697.5
25°	4550.1	4517.7	4583.1	4569.0	4569.0
27.5°	4397.0	4373.9	4445.2	4430.0	4430.0
30°	4294.9	4271.8	4346.9	4328.0	4328.0
32.5°	4181.5	4165.8	4237.3	4214.6	4214.6
35°	4002.0	3992.7	4063.4	4035.0	4035.0
37.5°	3816.8	3808.4	3872.5	3838.2	3827.1
40°	3680.7	3676.1	3732.7	3694.9	3694.9
42.5°	3544.6	3540.0	3589.0	3543.7	3543.7
45°	3335.8	3326.5	3359.4	3316.7	3307.4
47.5°	3108.0	3098.8	3119.4	3073.0	3068.3
50°	2953.0	2943.8	2953.0	2910.4	2905.8
52.5°	2794.3	2777.7	2779.2	2736.6	2735.7
55°	2551.4	2519.1	2518.4	2480.6	2480.6
57.5°	2294.4	2251.9	2255.7	2223.4	2218.8
60°	2116.7	2070.5	2074.2	2045.8	2041.1
62.5°	1942.9	1889.3	1900.3	1868.2	1867.3
65°	1653.7	1616.7	1620.6	1606.5	1606.5
67.5°	1375.9	1341.7	1366.4	1355.1	1354.1
70°	1171.8	1148.7	1181.2	1181.1	1176.5
72.5°	982.8	981.8	1022.5	1022.5	1025.3
75°	713.5	745.8	789.1	793.8	793.8
77.5°	476.3	533.6	581.2	583.0	582.1
80°	340.2	404.9	448.9	458.2	453.6
82.5°	230.6	298.9	335.5	344.8	340.2
85°	103.9	159.4	189.0	193.6	189.0
87.5°	30.2	63.5	75.6	75.4	68.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)