

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: P562577

Luminaire Tested: **SQ4-PC3-025U-125D-830-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562577
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-PC3-025U-125D-830-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

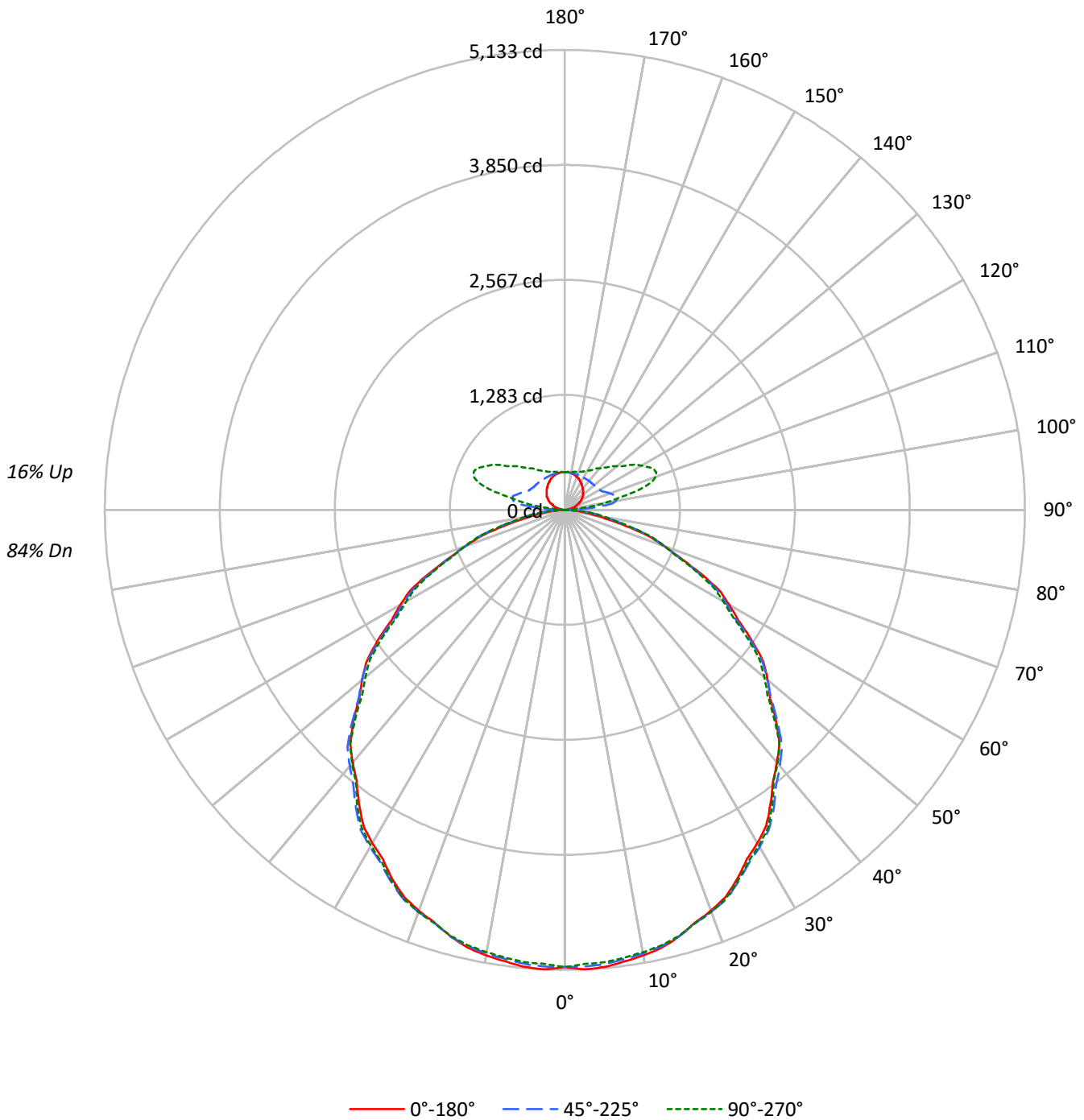
Lumens per Lamp: N/A
Luminaire Lumens: 16664.1 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 156.2
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	115	115	115	115	111	111	111	111	102	102	102	94	94	94	87	87	87	84				
1	105	101	97	93	101	97	93	90	90	87	84	83	81	79	77	75	74	71				
2	96	88	82	76	92	85	79	74	79	74	70	73	69	66	68	65	62	59				
3	88	78	70	64	84	75	68	62	70	64	59	65	60	56	60	56	53	50				
4	80	69	60	54	77	66	59	53	62	55	50	58	52	48	54	49	46	43				
5	74	61	53	46	71	59	51	45	55	49	43	52	46	42	48	44	40	37				
6	68	55	47	40	65	53	45	40	50	43	38	47	41	36	44	39	35	33				
7	63	50	42	36	60	48	41	35	45	39	34	43	37	32	40	35	31	29				
8	59	46	37	32	56	44	37	31	42	35	30	39	33	29	37	32	28	26				
9	55	42	34	28	53	41	33	28	38	32	27	36	30	26	34	29	25	23				
10	51	38	31	26	49	37	30	25	35	29	24	33	28	24	31	26	23	21				

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	2.9
10°-20°	1385.9	8.3
20°-30°	2098.7	12.6
30°-40°	2516.1	15.1
40°-50°	2565.6	15.4
50°-60°	2239.6	13.4
60°-70°	1603.3	9.6
70°-80°	825.8	5.0
80°-90°	211.1	1.3
90°-100°	205.7	1.2
100°-110°	540.7	3.2
110°-120°	560.7	3.4
120°-130°	449.7	2.7
130°-140°	352.9	2.1
140°-150°	270.8	1.6
150°-160°	195.1	1.2
160°-170°	119.3	0.7
170°-180°	40.3	0.2
0°-30°	3967.5	23.8
0°-40°	6483.6	38.9
0°-60°	11288.7	67.7
0°-90°	13929.0	83.6
90°-120°	1307.0	7.8
90°-150°	2380.4	14.3
90°-180°	2735.0	16.4
0°-180°	16664.1	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	141
90°	3	8	22	11	11	7
95°	27	106	354	183	124	30
105°	97	148	598	908	847	103
115°	173	210	479	955	1090	171
125°	241	270	436	736	868	214
135°	287	316	422	594	674	222
145°	333	354	417	507	546	208
155°	376	387	417	458	471	173
165°	406	411	417	433	438	115
175°	422	422	419	425	425	40
180°	422	422	422	422	422	

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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°	30.8	65.1	79.9	77.6	70.2
90°	2.7	8.0	21.6	10.8	10.8
92.5°	11.4	54.7	121.2	53.7	34.6
95°	27.1	106.4	354.4	182.6	124.4
97.5°	47.1	116.9	530.2	421.6	310.5
100°	62.2	125.7	584.3	592.1	459.9
102.5°	75.2	134.4	599.4	737.5	624.3
105°	97.4	147.6	597.8	907.5	846.7
107.5°	120.1	166.7	563.7	995.8	1010.6
110°	135.3	177.6	535.6	1018.5	1082.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	150.4	190.6	509.6	1004.2	1101.5
115°	173.1	210.2	478.8	955.2	1090.1
117.5°	195.3	229.2	457.7	887.4	1037.1
120°	208.3	240.0	449.0	841.9	987.3
122.5°	221.3	253.0	442.5	796.4	939.7
125°	240.8	269.8	435.5	736.1	868.3
127.5°	256.4	286.1	429.6	687.5	799.1
130°	265.1	296.8	427.4	657.0	760.1
132.5°	273.8	305.5	425.2	630.8	723.3
135°	286.7	315.8	422.0	594.2	673.6
137.5°	300.3	328.8	421.4	566.8	631.9
140°	311.1	337.5	419.3	545.1	605.9
142.5°	319.7	344.1	419.3	529.8	582.1
145°	332.7	353.9	416.6	506.7	546.4
147.5°	345.7	366.3	416.6	487.7	520.5
150°	354.4	372.9	416.6	476.7	503.1
152.5°	363.0	377.3	416.6	467.9	488.0
155°	376.0	386.6	416.6	457.5	470.7
157.5°	385.7	395.8	416.6	448.2	457.7
160°	392.2	400.2	416.6	443.8	449.0
162.5°	398.7	404.5	416.6	439.4	444.7
165°	405.8	411.0	416.6	432.9	438.2
167.5°	412.3	414.9	419.3	430.2	432.3
170°	416.6	419.2	419.3	430.1	430.1
172.5°	418.7	419.3	419.3	427.9	425.8
175°	422.0	422.0	419.3	424.7	424.7
177.5°	422.0	422.0	419.8	424.1	422.0
180°	422.0	422.0	422.0	422.0	422.0

(END OF REPORT)