

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: P561674

Luminaire Tested: **SQ4-PC3-125U-050D-92765-1D-UNV-STD-W-4 (3000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561674
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, 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-PC3-125U-050D-92765-1D-UNV-STD-W-4 (3000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

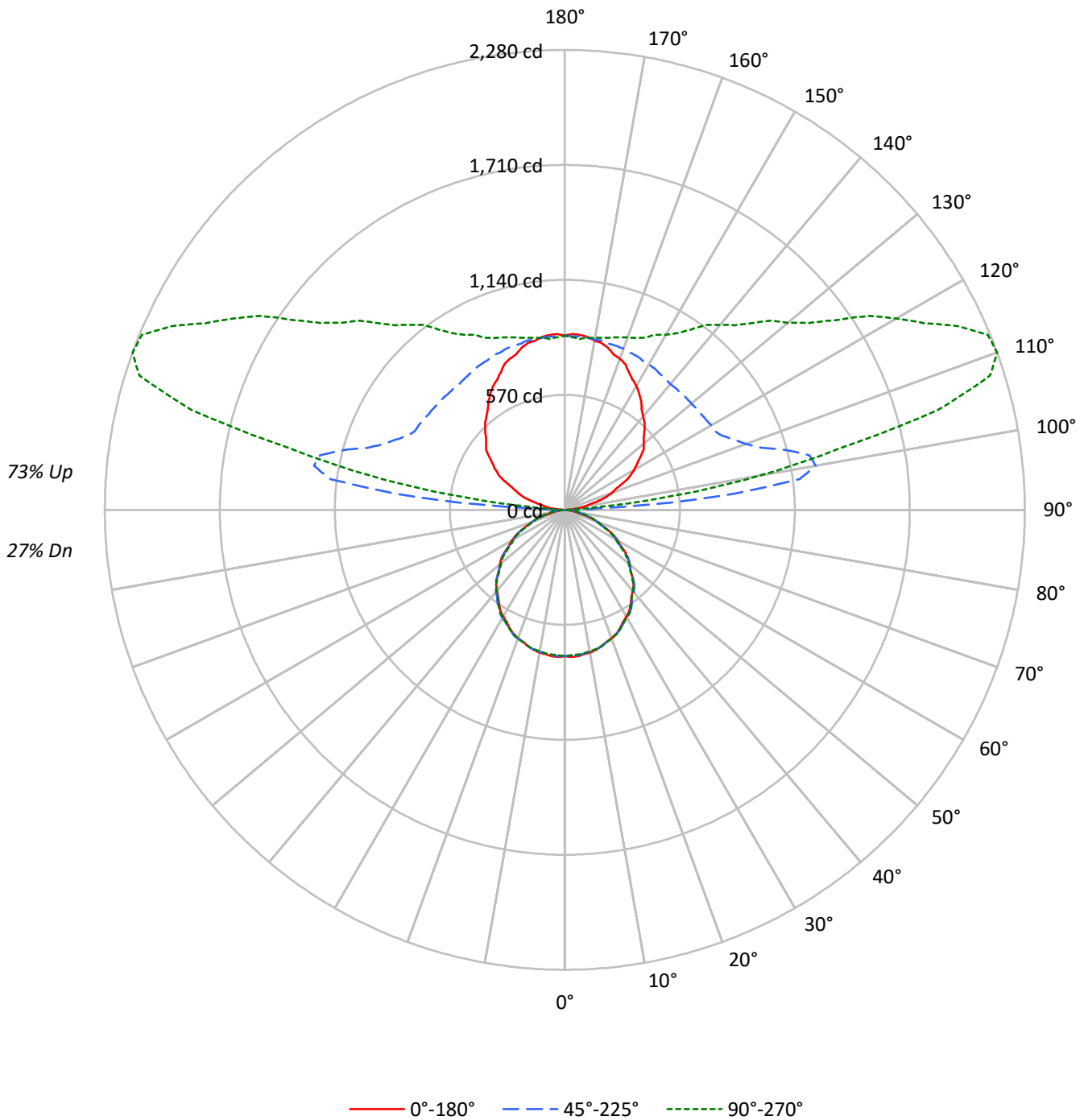
Lumens per Lamp: N/A
Luminaire Lumens: 7343.4 lumens
Efficiency: N/A
Efficacy: 118.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 62.2
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	102	102	102	102	91	91	91	91	71	71	71	52	52	52	35	35	35	27				
1	93	89	85	81	83	79	76	73	62	60	58	46	44	43	31	30	30	23				
2	84	77	71	66	75	69	64	60	54	51	48	40	38	36	27	26	25	19				
3	77	68	61	55	68	61	55	50	48	43	40	35	33	30	24	22	21	16				
4	70	60	52	47	62	54	47	42	42	38	34	31	28	26	21	20	18	14				
5	64	53	45	40	57	48	41	36	38	33	29	28	25	22	19	17	16	12				
6	59	48	40	34	53	43	36	31	34	29	25	25	22	19	17	15	14	11				
7	55	43	35	30	49	38	32	27	30	26	22	23	20	17	16	14	12	9				
8	50	39	31	26	45	35	28	24	28	23	19	21	18	15	15	12	11	8				
9	47	35	28	23	42	32	25	21	25	21	17	19	16	14	13	11	10	7				
10	44	32	25	20	39	29	23	19	23	19	15	18	14	12	12	10	9	7				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6695	6695	6695
5°	6744	6701	6676
10°	6728	6697	6678
15°	6693	6693	6686
20°	6649	6669	6669
25°	6586	6634	6613
30°	6506	6585	6556
35°	6409	6508	6462
40°	6303	6392	6328
45°	6189	6233	6136
50°	6027	6027	5931
55°	5836	5760	5673
60°	5554	5442	5355
65°	5132	5030	4986
70°	4494	4532	4513
75°	3615	4000	4025
80°	2572	3390	3427
85°	1567	2848	2848



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.7	0.9
10°-20°	197.1	2.7
20°-30°	298.4	4.1
30°-40°	357.8	4.9
40°-50°	364.8	5.0
50°-60°	318.4	4.3
60°-70°	228.0	3.1
70°-80°	117.4	1.6
80°-90°	29.7	0.4
90°-100°	393.4	5.4
100°-110°	1119.5	15.2
110°-120°	1072.5	14.6
120°-130°	848.9	11.6
130°-140°	681.4	9.3
140°-150°	533.4	7.3
150°-160°	390.3	5.3
160°-170°	241.8	3.3
170°-180°	82.0	1.1
0°-30°	564.1	7.7
0°-40°	921.9	12.6
0°-60°	1605.1	21.9
0°-90°	1980.2	27.0
90°-120°	2585.4	35.2
90°-150°	4649.1	63.3
90°-180°	5363.0	73.0
0°-180°	7343.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	726	726	726	726	726	
5°	728	721	724	722	721	69
15°	701	695	701	701	700	198
25°	647	642	652	650	650	298
35°	569	568	578	574	574	356
45°	474	473	478	472	470	365
55°	363	358	358	353	353	323
65°	235	230	230	228	228	233
75°	101	106	112	113	113	110
85°	15	23	27	28	27	20
90°	0	0	0	0	0	2
95°	43	170	762	264	162	49
105°	174	264	1141	2015	1916	184
115°	323	391	865	1832	2152	318
125°	456	506	826	1370	1638	408
135°	558	605	816	1157	1308	431
145°	658	692	822	1002	1092	411
155°	752	769	842	905	942	348
165°	831	834	852	870	883	234
175°	870	865	862	857	850	82
180°	863	863	863	863	863	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	725.6	725.6	725.6	725.6	725.6
2.5°	729.9	723.5	725.6	723.9	721.3
5°	728.2	721.0	723.5	721.5	720.8
7.5°	723.0	715.8	719.1	717.7	717.1
10°	718.2	710.9	714.8	713.4	712.8
12.5°	711.7	705.0	709.4	708.1	708.0
15°	700.7	694.8	700.7	700.7	700.0
17.5°	686.9	681.5	687.8	688.2	687.8
20°	677.2	671.3	679.2	678.5	679.2
22.5°	665.4	660.5	669.0	667.3	667.9
25°	647.0	642.4	651.7	649.6	649.6
27.5°	625.2	621.9	632.0	629.9	629.9
30°	610.7	607.4	618.1	615.4	615.4
32.5°	594.5	592.3	602.5	599.3	599.3
35°	569.0	567.7	577.8	573.7	573.7
37.5°	542.7	541.5	550.6	545.7	544.2
40°	523.3	522.7	530.7	525.4	525.4
42.5°	504.0	503.3	510.3	503.9	503.9
45°	474.3	473.0	477.7	471.6	470.3
47.5°	441.9	440.6	443.5	436.9	436.3
50°	419.9	418.6	419.9	413.8	413.2
52.5°	397.3	394.9	395.2	389.1	389.0
55°	362.8	358.2	358.1	352.7	352.7
57.5°	326.2	320.2	320.7	316.1	315.5
60°	301.0	294.4	294.9	290.9	290.2
62.5°	276.2	268.6	270.2	265.6	265.5
65°	235.1	229.9	230.4	228.4	228.4
67.5°	195.6	190.8	194.3	192.7	192.5
70°	166.6	163.3	168.0	167.9	167.3
72.5°	139.7	139.6	145.4	145.4	145.8
75°	101.4	106.0	112.2	112.9	112.9
77.5°	67.7	75.9	82.6	82.9	82.8
80°	48.4	57.6	63.8	65.2	64.5
82.5°	32.8	42.5	47.7	49.0	48.4
85°	14.8	22.7	26.9	27.5	26.9
87.5°	4.3	9.0	10.7	10.7	9.7
90°	0.0	0.0	0.0	0.0	0.0
92.5°	13.1	69.6	161.5	47.0	35.5
95°	42.7	169.5	761.6	263.6	162.5
97.5°	78.5	198.5	1173.0	839.3	575.2
100°	103.4	215.8	1262.3	1278.6	984.9
102.5°	131.0	234.3	1242.6	1636.6	1380.1
105°	174.0	263.9	1140.8	2015.1	1915.6
107.5°	217.7	298.2	1022.0	2121.8	2210.4
110°	247.9	323.3	953.7	2080.9	2279.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	276.7	348.3	907.7	1984.4	2268.1
115°	323.4	390.8	865.0	1832.5	2151.9
117.5°	364.4	427.6	839.8	1666.5	2004.8
120°	397.2	450.2	837.1	1571.7	1895.9
122.5°	423.5	476.5	830.6	1488.4	1789.5
125°	456.3	506.1	825.6	1370.1	1638.1
127.5°	492.1	538.6	823.0	1299.5	1520.3
130°	510.5	557.0	819.1	1250.2	1442.8
132.5°	530.2	575.4	819.1	1211.8	1389.0
135°	558.1	604.6	815.8	1157.4	1308.2
137.5°	584.3	629.6	815.5	1111.3	1241.6
140°	604.0	650.6	814.2	1073.1	1198.2
142.5°	626.4	665.2	818.1	1042.6	1154.9
145°	658.2	691.9	822.4	1001.7	1091.6
147.5°	685.5	718.2	829.6	960.4	1038.0
150°	709.1	731.6	832.2	946.7	1001.3
152.5°	727.5	751.2	834.8	928.2	978.9
155°	751.8	769.4	842.1	905.3	942.2
157.5°	782.0	792.6	843.7	894.9	921.2
160°	797.7	805.8	850.3	886.9	909.4
162.5°	806.9	816.2	851.6	880.2	897.5
165°	830.6	833.8	851.9	870.3	883.1
167.5°	846.7	843.8	859.5	867.8	872.9
170°	851.9	850.3	856.8	858.6	865.0
172.5°	863.7	858.3	860.8	856.0	861.1
175°	870.0	865.1	861.8	856.7	850.3
177.5°	872.6	864.9	860.8	855.5	856.8
180°	863.4	863.4	863.4	863.4	863.4

(END OF REPORT)