

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: P563160

Luminaire Tested: **SQ4-PC3-150U-125D-835-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563160
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, 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-PC3-150U-125D-835-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

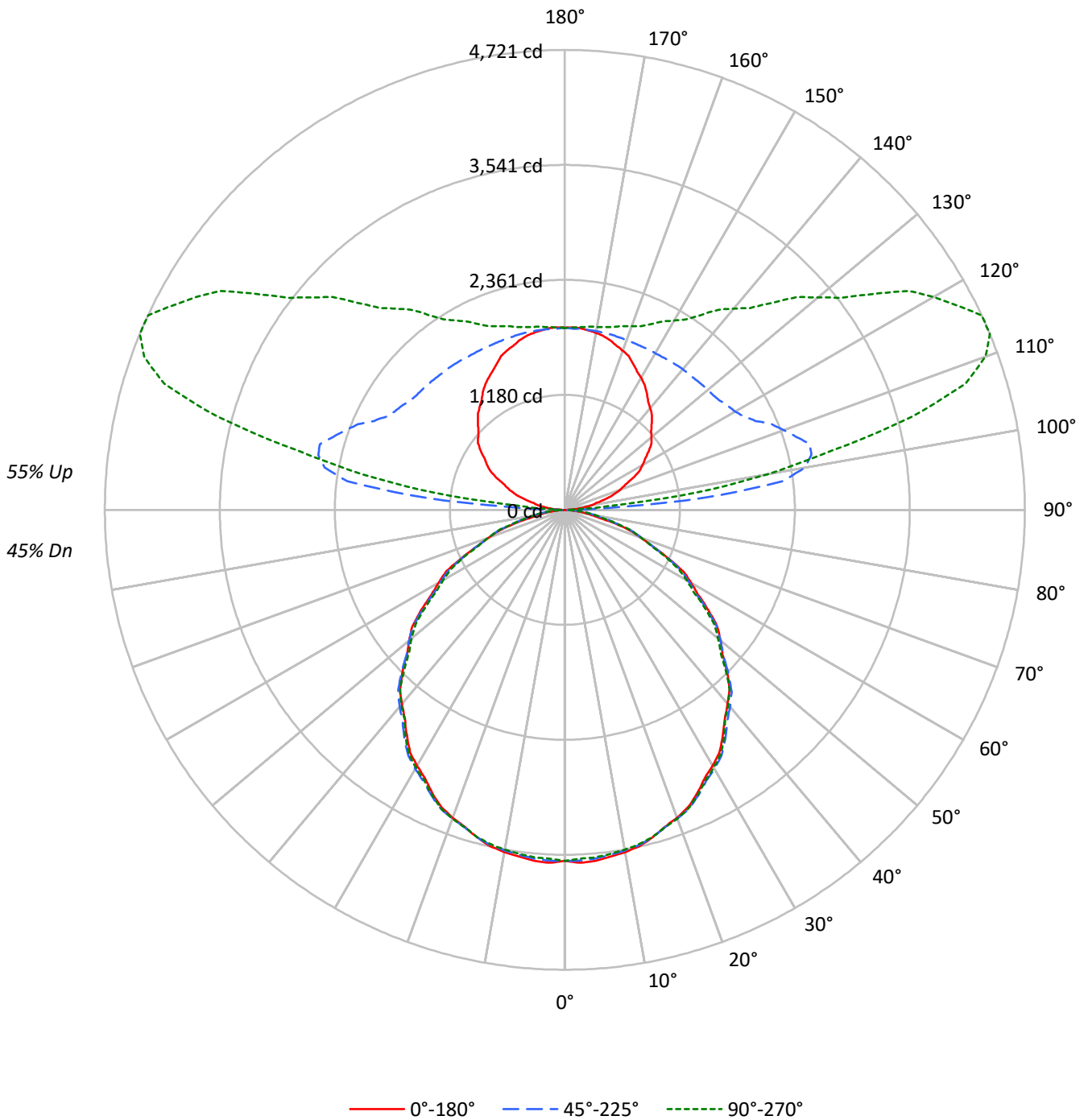
Lumens per Lamp: N/A
Luminaire Lumens: 21888.1 lumens
Efficiency: N/A
Efficacy: 130.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 167.8
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: P563160
CATALOG NUMBER: SQ4-PC3-150U-125D-835-1D-UNV-STD-W-8

Luminous Intensity Polar Plot





TEST NUMBER: P563160

CATALOG NUMBER: SQ4-PC3-150U-125D-835-1D-UNV-STD-W-8

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	106	106	106	106	97	97	97	97	81	81	81	65	65	65	51	51	51	45
1	97	92	89	85	88	85	82	79	71	68	66	58	56	55	46	45	44	38
2	88	81	75	70	80	74	69	65	62	58	55	51	48	46	40	38	37	32
3	80	71	64	58	73	65	59	54	55	50	46	45	41	38	36	33	31	27
4	73	63	55	49	67	58	51	46	48	43	39	40	36	33	32	29	27	23
5	67	56	48	42	61	51	44	39	43	38	34	36	32	28	29	26	23	20
6	62	50	42	36	57	46	39	34	39	33	29	32	28	25	26	23	20	18
7	57	45	37	32	52	42	35	30	35	30	26	29	25	22	24	20	18	15
8	53	41	33	28	49	38	31	26	32	27	23	27	23	20	22	19	16	14
9	49	37	30	25	45	35	28	23	29	24	20	24	20	17	20	17	15	12
10	46	34	27	22	42	32	25	21	27	22	18	23	19	16	18	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16626	16626	16626
5°	16752	16643	16582
10°	16711	16632	16586
15°	16623	16623	16607
20°	16514	16563	16563
25°	16358	16476	16425
30°	16159	16354	16283
35°	15918	16163	16049
40°	15655	15876	15716
45°	15370	15479	15240
50°	14968	14968	14729
55°	14494	14306	14091
60°	13793	13516	13301
65°	12749	12494	12385
70°	11163	11253	11208
75°	8981	9933	9992
80°	6384	8421	8512
85°	3885	7066	7066



TEST NUMBER: P563160

CATALOG NUMBER: SQ4-PC3-150U-125D-835-1D-UNV-STD-W-8

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	341.1	1.6
10°-20°	978.8	4.5
20°-30°	1482.3	6.8
30°-40°	1777.1	8.1
40°-50°	1812.0	8.3
50°-60°	1581.8	7.2
60°-70°	1132.4	5.2
70°-80°	583.3	2.7
80°-90°	151.4	0.7
90°-100°	868.4	4.0
100°-110°	2348.1	10.7
110°-120°	2468.6	11.3
120°-130°	2005.2	9.2
130°-140°	1572.9	7.2
140°-150°	1207.2	5.5
150°-160°	868.2	4.0
160°-170°	530.4	2.4
170°-180°	178.8	0.8
0°-30°	2802.2	12.8
0°-40°	4579.4	20.9
0°-60°	7973.2	36.4
0°-90°	9840.2	45.0
90°-120°	5685.1	26.0
90°-150°	10470.5	47.8
90°-180°	12048.0	55.0
0°-180°	21888.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3604	3604	3604	3604	3604	
5°	3618	3582	3594	3584	3581	343
15°	3481	3451	3481	3481	3477	981
25°	3214	3191	3237	3227	3227	1479
35°	2827	2820	2870	2850	2850	1768
45°	2356	2350	2373	2342	2336	1814
55°	1802	1779	1779	1752	1752	1606
65°	1168	1142	1145	1135	1135	1155
75°	504	527	557	561	561	545
85°	73	113	134	137	134	100
90°	4	12	26	28	26	12
95°	135	473	1444	747	444	141
105°	436	674	2605	3842	3685	460
115°	768	940	2160	4182	4721	759
125°	1052	1205	1947	3286	3860	938
135°	1261	1411	1895	2653	3003	975
145°	1466	1576	1869	2271	2444	917
155°	1655	1720	1853	2037	2104	764
165°	1802	1820	1861	1933	1943	508
175°	1871	1869	1863	1887	1883	178
180°	1869	1869	1869	1869	1869	

TEST NUMBER: P563160

CATALOG NUMBER: SQ4-PC3-150U-125D-835-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3604.1	3604.1	3604.1	3604.1	3604.1
2.5°	3625.5	3594.2	3604.1	3595.8	3582.8
5°	3617.5	3581.6	3594.1	3584.0	3580.8
7.5°	3591.4	3555.6	3572.1	3565.3	3562.1
10°	3567.4	3531.5	3550.7	3544.0	3540.7
12.5°	3535.4	3502.1	3524.0	3517.3	3516.7
15°	3480.7	3451.3	3480.7	3480.6	3477.3
17.5°	3411.9	3385.2	3416.6	3418.5	3416.6
20°	3363.9	3334.5	3373.9	3370.6	3373.9
22.5°	3305.1	3281.0	3323.1	3314.5	3317.8
25°	3213.7	3190.8	3237.0	3227.0	3227.0
27.5°	3105.6	3089.2	3139.6	3128.9	3128.9
30°	3033.5	3017.2	3070.2	3056.8	3056.8
32.5°	2953.4	2942.3	2992.8	2976.7	2976.7
35°	2826.6	2820.0	2870.0	2849.9	2849.9
37.5°	2695.8	2689.9	2735.1	2710.9	2703.1
40°	2599.6	2596.4	2636.4	2609.7	2609.7
42.5°	2503.5	2500.3	2534.9	2502.9	2502.9
45°	2356.0	2349.5	2372.7	2342.5	2336.0
47.5°	2195.2	2188.7	2203.2	2170.4	2167.1
50°	2085.7	2079.2	2085.7	2055.6	2052.4
52.5°	1973.6	1961.8	1962.9	1932.9	1932.2
55°	1802.1	1779.2	1778.7	1752.0	1752.0
57.5°	1620.5	1590.5	1593.2	1570.4	1567.1
60°	1495.0	1462.4	1465.0	1444.9	1441.7
62.5°	1372.2	1334.4	1342.2	1319.5	1318.8
65°	1168.0	1141.9	1144.6	1134.6	1134.6
67.5°	971.8	947.6	965.1	957.1	956.4
70°	827.6	811.3	834.3	834.2	831.0
72.5°	694.1	693.5	722.2	722.2	724.2
75°	503.9	526.8	557.3	560.6	560.6
77.5°	336.4	376.8	410.5	411.8	411.1
80°	240.3	286.0	317.0	323.6	320.4
82.5°	162.9	211.1	236.9	243.5	240.3
85°	73.4	112.6	133.5	136.7	133.5
87.5°	22.2	47.2	58.6	58.9	53.3
90°	4.0	11.9	26.1	28.1	26.1
92.5°	57.1	208.2	410.7	178.3	129.1
95°	134.8	473.1	1444.2	747.4	444.5
97.5°	216.4	542.5	2251.2	1863.0	1368.2
100°	277.6	570.6	2502.3	2609.6	2110.0
102.5°	333.9	609.6	2590.8	3175.7	2802.0
105°	436.5	674.5	2604.9	3842.4	3685.0
107.5°	531.4	748.6	2491.0	4258.3	4310.6
110°	605.5	802.1	2389.6	4369.9	4592.2

TEST NUMBER: P563160

CATALOG NUMBER: SQ4-PC3-150U-125D-835-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	671.4	855.5	2296.3	4347.6	4720.9
115°	768.4	939.5	2160.3	4182.0	4720.9
117.5°	863.3	1023.8	2070.6	3929.0	4539.9
120°	921.3	1078.6	2017.5	3747.5	4370.9
122.5°	976.0	1130.2	1985.3	3552.9	4181.0
125°	1052.0	1205.4	1947.1	3285.7	3860.0
127.5°	1122.0	1272.7	1924.6	3067.7	3572.8
130°	1160.6	1316.0	1914.9	2933.0	3389.3
132.5°	1200.8	1354.6	1905.3	2811.5	3231.6
135°	1261.2	1410.7	1894.8	2653.0	3003.1
137.5°	1321.9	1463.2	1886.0	2524.4	2809.6
140°	1363.8	1495.5	1882.7	2441.7	2695.4
142.5°	1404.0	1527.9	1876.3	2366.9	2589.2
145°	1466.4	1576.5	1868.7	2270.9	2443.9
147.5°	1523.1	1620.6	1859.8	2183.9	2316.8
150°	1564.9	1651.5	1856.6	2136.6	2242.8
152.5°	1603.5	1679.1	1855.0	2092.7	2180.0
155°	1655.4	1720.3	1852.6	2037.1	2104.0
157.5°	1709.3	1754.6	1853.0	1998.4	2042.4
160°	1739.9	1777.3	1854.6	1974.0	2005.4
162.5°	1764.1	1795.1	1856.2	1954.5	1978.1
165°	1802.3	1820.0	1860.6	1933.2	1943.1
167.5°	1828.4	1840.6	1861.0	1915.0	1919.7
170°	1844.5	1850.4	1862.6	1906.9	1906.9
172.5°	1857.4	1858.6	1862.6	1897.2	1895.6
175°	1870.7	1868.7	1862.6	1886.7	1882.7
177.5°	1875.1	1870.4	1862.2	1878.2	1873.5
180°	1868.7	1868.7	1868.7	1868.7	1868.7

(END OF REPORT)