

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: P561738

Luminaire Tested: **SQ4-PC3-150U-075D-92765-1D-UNV-STD-W-4 (2700K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561738
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-PC3-150U-075D-92765-1D-UNV-STD-W-4 (2700K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

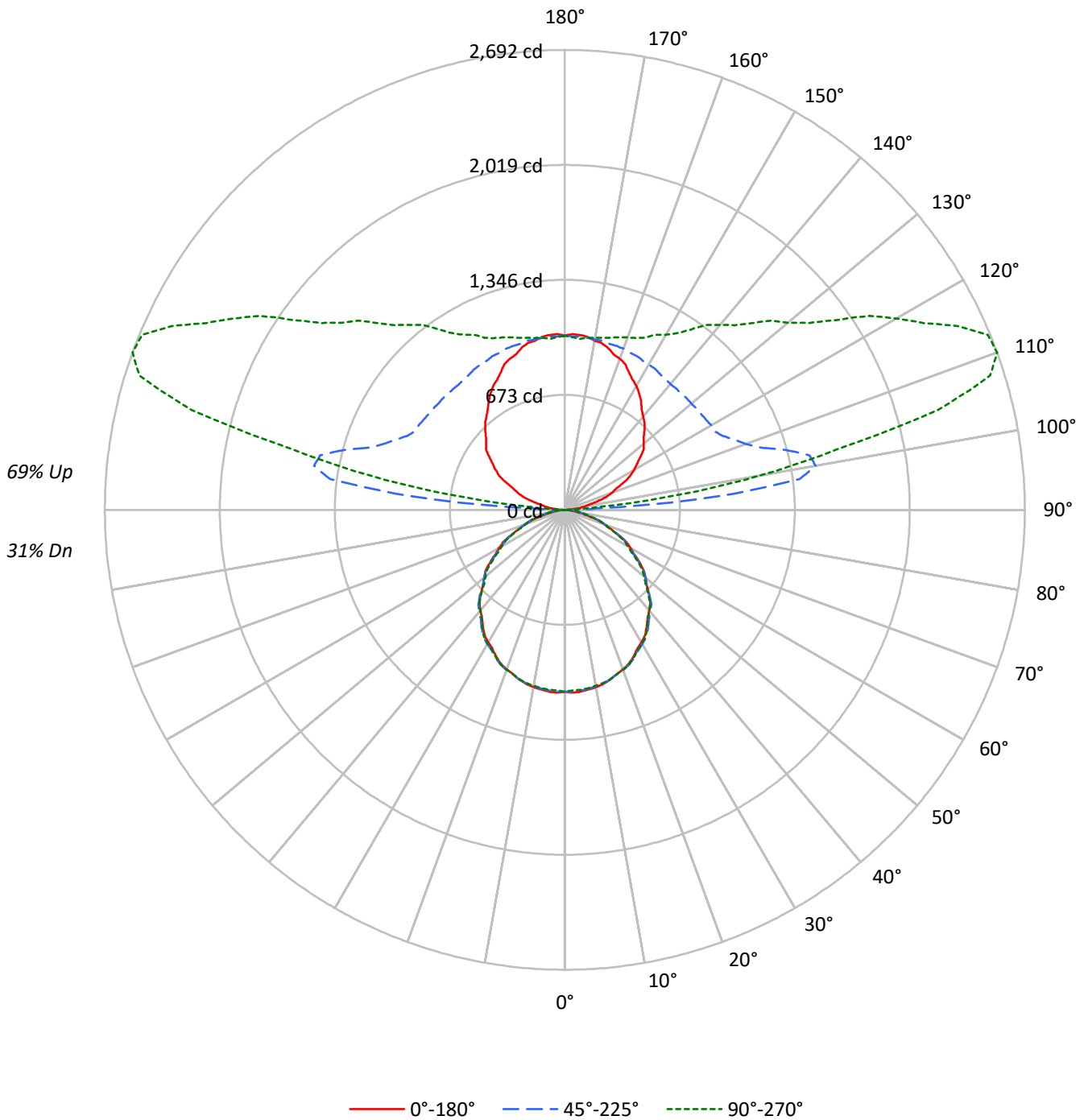
Lumens per Lamp: N/A
Luminaire Lumens: 9237.5 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 82.8
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	103	103	103	103	92	92	92	92	73	73	73	55	55	55	39	39	39	31
1	94	89	86	82	84	81	77	75	64	62	60	49	47	46	35	34	33	27
2	85	78	72	67	76	70	65	61	56	53	50	43	40	38	30	29	28	22
3	78	69	62	56	70	62	56	51	49	45	42	38	35	32	27	25	24	19
4	71	61	53	47	64	55	48	43	44	39	35	34	30	28	24	22	20	16
5	65	54	46	40	58	49	42	37	39	34	30	30	27	24	22	19	18	14
6	60	48	40	35	54	44	37	32	35	30	26	27	24	21	20	17	15	12
7	55	43	36	30	49	39	33	28	32	27	23	25	21	18	18	15	14	11
8	51	39	32	26	46	36	29	24	29	24	20	22	19	16	16	14	12	10
9	47	36	28	23	43	32	26	22	26	21	18	20	17	14	15	13	11	9
10	44	33	26	21	40	30	23	19	24	19	16	19	15	13	14	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9821	9821	9821
5°	9896	9832	9795
10°	9872	9826	9798
15°	9820	9820	9811
20°	9755	9784	9784
25°	9663	9733	9704
30°	9546	9661	9619
35°	9404	9548	9481
40°	9249	9379	9283
45°	9080	9144	9003
50°	8843	8843	8701
55°	8562	8451	8324
60°	8149	7984	7857
65°	7532	7381	7316
70°	6596	6647	6620
75°	5304	5868	5903
80°	3772	4973	5026
85°	2297	4171	4171



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.7	1.1
10°-20°	289.1	3.1
20°-30°	437.8	4.7
30°-40°	524.9	5.7
40°-50°	535.2	5.8
50°-60°	467.2	5.1
60°-70°	334.5	3.6
70°-80°	172.3	1.9
80°-90°	43.6	0.5
90°-100°	464.5	5.0
100°-110°	1321.7	14.3
110°-120°	1266.3	13.7
120°-130°	1002.2	10.8
130°-140°	804.5	8.7
140°-150°	629.8	6.8
150°-160°	460.8	5.0
160°-170°	285.4	3.1
170°-180°	96.9	1.0
0°-30°	827.7	9.0
0°-40°	1352.6	14.6
0°-60°	2355.1	25.5
0°-90°	2905.4	31.5
90°-120°	3052.5	33.0
90°-150°	5489.0	59.4
90°-180°	6332.0	68.5
0°-180°	9237.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1064	1064	1064	1064	1064	
5°	1068	1058	1062	1059	1058	101
15°	1028	1019	1028	1028	1027	290
25°	949	942	956	953	953	437
35°	835	833	848	842	842	522
45°	696	694	701	692	690	536
55°	532	526	525	518	518	475
65°	345	337	338	335	335	341
75°	149	156	165	166	166	161
85°	22	33	39	40	39	29
90°	0	0	0	0	0	3
95°	50	200	899	311	192	58
105°	205	312	1347	2379	2262	217
115°	382	461	1021	2164	2541	376
125°	539	598	975	1618	1934	482
135°	659	714	963	1366	1545	508
145°	777	817	971	1183	1289	485
155°	888	908	994	1069	1112	410
165°	981	984	1006	1028	1043	276
175°	1027	1022	1018	1012	1004	97
180°	1019	1019	1019	1019	1019	

TEST NUMBER: P561738

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1064.5	1064.5	1064.5	1064.5	1064.5
2.5°	1070.9	1061.6	1064.5	1062.1	1058.2
5°	1068.5	1057.9	1061.6	1058.6	1057.6
7.5°	1060.8	1050.2	1055.1	1053.1	1052.1
10°	1053.7	1043.1	1048.8	1046.8	1045.8
12.5°	1044.2	1034.4	1040.9	1038.9	1038.7
15°	1028.1	1019.4	1028.1	1028.1	1027.1
17.5°	1007.8	999.9	1009.2	1009.7	1009.2
20°	993.6	984.9	996.5	995.6	996.5
22.5°	976.2	969.1	981.6	979.0	980.0
25°	949.2	942.5	956.1	953.2	953.2
27.5°	917.3	912.5	927.3	924.2	924.2
30°	896.0	891.2	906.8	902.9	902.9
32.5°	872.3	869.1	884.0	879.2	879.2
35°	834.9	833.0	847.7	841.8	841.8
37.5°	796.2	794.5	807.9	800.7	798.4
40°	767.9	766.9	778.7	770.8	770.8
42.5°	739.5	738.5	748.7	739.3	739.3
45°	695.9	694.0	700.8	691.9	690.0
47.5°	648.4	646.5	650.8	641.1	640.1
50°	616.1	614.1	616.1	607.2	606.2
52.5°	582.9	579.5	579.8	570.9	570.7
55°	532.3	525.5	525.4	517.5	517.5
57.5°	478.7	469.8	470.6	463.8	462.9
60°	441.6	432.0	432.7	426.8	425.8
62.5°	405.3	394.1	396.4	389.7	389.5
65°	345.0	337.3	338.1	335.1	335.1
67.5°	287.0	279.9	285.1	282.7	282.5
70°	244.5	239.6	246.4	246.4	245.4
72.5°	205.0	204.8	213.3	213.3	213.9
75°	148.8	155.6	164.6	165.6	165.6
77.5°	99.4	111.3	121.2	121.6	121.4
80°	71.0	84.5	93.6	95.6	94.6
82.5°	48.1	62.4	70.0	71.9	71.0
85°	21.7	33.3	39.4	40.4	39.4
87.5°	6.3	13.2	15.8	15.7	14.2
90°	0.0	0.0	0.0	0.0	0.0
92.5°	15.5	82.2	190.7	55.5	41.9
95°	50.4	200.1	899.2	311.2	191.9
97.5°	92.6	234.4	1384.9	991.0	679.1
100°	122.1	254.7	1490.3	1509.6	1162.8
102.5°	154.7	276.7	1467.1	1932.3	1629.5
105°	205.4	311.5	1346.9	2379.1	2261.7
107.5°	257.0	352.1	1206.6	2505.1	2609.7
110°	292.6	381.7	1126.0	2456.9	2691.9

TEST NUMBER: P561738

CATALOG NUMBER: SQ4-PC3-150U-075D-92765-1D-UNV-STD-W-4 (2700K)

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	326.7	411.3	1071.7	2342.9	2677.9
115°	381.8	461.4	1021.3	2163.6	2540.7
117.5°	430.2	504.9	991.5	1967.6	2367.1
120°	469.0	531.5	988.4	1855.6	2238.4
122.5°	500.0	562.5	980.6	1757.3	2112.8
125°	538.8	597.5	974.8	1617.7	1934.1
127.5°	581.0	636.0	971.7	1534.2	1795.0
130°	602.7	657.7	967.1	1476.1	1703.5
132.5°	626.0	679.4	967.1	1430.7	1639.9
135°	658.9	713.9	963.2	1366.5	1544.6
137.5°	689.9	743.4	962.8	1312.0	1465.9
140°	713.2	768.1	961.3	1266.9	1414.7
142.5°	739.5	785.4	965.9	1230.9	1363.6
145°	777.1	816.9	970.9	1182.7	1288.8
147.5°	809.3	848.0	979.5	1133.9	1225.6
150°	837.2	863.7	982.6	1117.8	1182.2
152.5°	858.9	887.0	985.7	1095.9	1155.8
155°	887.6	908.5	994.2	1068.8	1112.4
157.5°	923.3	935.8	996.1	1056.5	1087.6
160°	941.9	951.3	1003.9	1047.1	1073.7
162.5°	952.7	963.7	1005.4	1039.2	1059.7
165°	980.6	984.4	1005.8	1027.5	1042.6
167.5°	999.6	996.2	1014.7	1024.6	1030.6
170°	1005.8	1003.9	1011.6	1013.7	1021.3
172.5°	1019.8	1013.3	1016.3	1010.6	1016.7
175°	1027.1	1021.5	1017.5	1011.5	1003.9
177.5°	1030.2	1021.1	1016.3	1010.1	1011.6
180°	1019.4	1019.4	1019.4	1019.4	1019.4

(END OF REPORT)