

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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

Brand: CORELITE

Report Number: P572010

Luminaire Tested: 22ID-60-L835-DBD

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P572010
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2109-397-4)
Test Lab: INNOVATION CENTER
Issue Date: 10/5/2021
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 221D-60-L835-DBD
Description: 6000 LUMEN, 2X2 INDEPTH TROFFER WITH 2IN DROPPED DOUBLE BARRELL LENS AND 3500K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

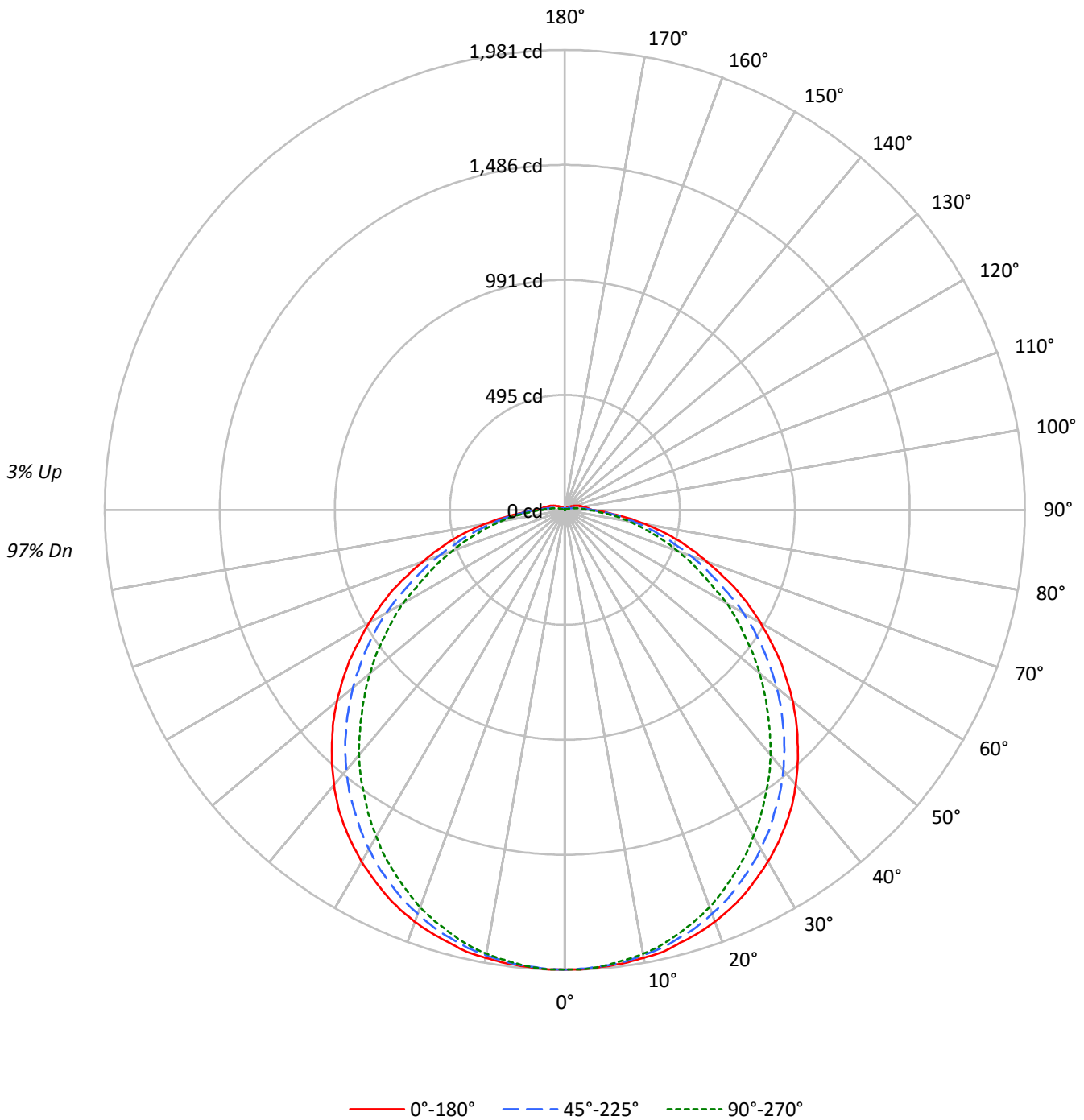
Lumens per Lamp: N/A
Luminaire Lumens: 6054.0 lumens
Efficiency: N/A
Efficacy: 118.9 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.22 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.17')
CIE Type: Direct

Input Watts (W): 50.9
Input Voltage (V):
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	118	118	118	118	115	115	115	115	110	110	110	104	104	104	100	100	100	97				
1	107	102	98	93	104	100	95	92	95	91	88	90	88	85	86	84	82	80				
2	97	89	81	75	94	87	80	74	82	77	72	79	74	70	75	72	68	66				
3	89	78	69	62	86	76	68	62	72	66	60	69	64	59	66	62	58	55				
4	81	69	60	53	78	67	59	52	64	57	51	62	55	50	59	54	49	47				
5	74	61	52	45	72	60	51	45	58	50	44	55	49	43	53	47	43	41				
6	69	55	46	39	67	54	45	39	52	44	39	50	43	38	48	42	38	35				
7	64	50	41	35	62	49	41	35	47	40	34	46	39	34	44	38	33	31				
8	59	46	37	31	57	45	37	31	43	36	30	42	35	30	40	34	30	28				
9	55	42	33	28	54	41	33	28	40	32	27	38	32	27	37	31	27	25				
10	52	39	31	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5330	5330	5330
5°	5295	5271	5287
10°	5277	5214	5229
15°	5259	5155	5153
20°	5247	5085	5064
25°	5225	5002	4942
30°	5189	4909	4816
35°	5145	4794	4671
40°	5078	4677	4528
45°	4982	4533	4340
50°	4876	4371	4170
55°	4741	4181	3964
60°	4573	3972	3785
65°	4412	3665	3507
70°	4156	3414	3294
75°	3986	3132	3060
80°	3683	2863	2896
85°	3311	2598	2743

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4982 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.5	3.1
10°-20°	539.3	8.9
20°-30°	819.5	13.5
30°-40°	989.4	16.3
40°-50°	1026.1	16.9
50°-60°	930.2	15.4
60°-70°	721.9	11.9
70°-80°	464.8	7.7
80°-90°	219.6	3.6
90°-100°	85.2	1.4
100°-110°	37.6	0.6
110°-120°	18.4	0.3
120°-130°	9.3	0.2
130°-140°	4.0	0.1
140°-150°	1.1	0.0
150°-160°	0.0	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1546.3	25.5
0°-40°	2535.7	41.9
0°-60°	4492.0	74.2
0°-90°	5898.2	97.4
90°-120°	141.2	2.3
90°-150°	155.6	2.6
90°-180°	156.0	2.6
0°-180°	6054.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1981	1981	1981	1981	1981	
5°	1975	1975	1972	1969	1972	188
15°	1930	1924	1909	1897	1891	546
25°	1828	1813	1777	1744	1729	842
35°	1658	1634	1580	1529	1505	1037
45°	1418	1394	1331	1266	1236	1095
55°	1131	1104	1041	975	945	1010
65°	817	781	721	673	649	805
75°	503	470	434	404	386	529
85°	209	209	198	186	174	201
90°	117	123	117	105	96	68
95°	96	81	75	69	63	75
105°	66	51	27	18	15	69
115°	39	33	18	3	0	40
125°	24	18	9	0	0	22
135°	12	9	3	0	0	10
145°	6	3	0	0	0	3
155°	0	0	0	0	0	0
165°	0	0	0	3	3	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1980.6	1980.6	1980.6	1980.6	1980.6
2.5°	1980.6	1977.6	1977.6	1977.6	1980.6
5°	1974.6	1974.6	1971.6	1968.6	1971.6
7.5°	1968.6	1965.6	1962.7	1959.7	1956.7
10°	1959.7	1956.7	1947.7	1941.7	1941.7
12.5°	1950.7	1941.7	1932.7	1923.8	1920.8
15°	1929.7	1923.8	1908.8	1896.8	1890.8
17.5°	1911.8	1902.8	1884.9	1866.9	1857.9
20°	1887.9	1875.9	1852.0	1831.0	1822.0
22.5°	1860.9	1846.0	1819.0	1789.1	1777.2
25°	1828.0	1813.1	1777.2	1744.2	1729.3
27.5°	1789.1	1774.2	1735.3	1693.4	1681.4
30°	1750.2	1732.3	1687.4	1642.5	1624.6
32.5°	1705.4	1684.4	1636.5	1585.7	1567.7
35°	1657.5	1633.5	1579.7	1528.8	1504.9
37.5°	1606.6	1582.7	1525.8	1469.0	1445.1
40°	1546.8	1522.8	1463.0	1400.2	1379.2
42.5°	1484.0	1460.0	1400.2	1334.4	1307.4
45°	1418.1	1394.2	1331.4	1265.6	1235.6
47.5°	1352.3	1328.4	1262.6	1196.7	1166.8
50°	1280.5	1256.6	1190.8	1121.9	1095.0
52.5°	1205.7	1181.8	1116.0	1050.1	1023.2
55°	1130.9	1104.0	1041.2	975.3	945.4
57.5°	1050.1	1026.2	966.4	903.5	876.6
60°	972.4	945.4	888.6	828.7	804.8
62.5°	894.6	864.6	804.8	745.0	721.0
65°	816.8	780.9	721.0	673.2	649.2
67.5°	730.0	697.1	649.2	601.4	583.4
70°	649.2	622.3	574.4	535.5	514.6
72.5°	577.4	544.5	499.6	469.7	451.8
75°	502.6	469.7	433.8	403.9	385.9
77.5°	424.8	397.9	368.0	347.1	329.1
80°	350.0	329.1	308.2	287.2	275.2
82.5°	275.2	263.3	251.3	236.4	224.4
85°	209.4	209.4	197.5	185.5	173.5
87.5°	155.6	158.6	152.6	140.6	131.6
90°	116.7	122.7	116.7	104.7	95.7
92.5°	104.7	98.7	92.7	86.8	77.8
95°	95.7	80.8	74.8	68.8	62.8
97.5°	86.8	68.8	59.8	53.9	47.9
100°	77.8	59.8	44.9	38.9	35.9
102.5°	71.8	56.8	35.9	26.9	26.9
105°	65.8	50.9	26.9	18.0	15.0
107.5°	56.8	44.9	23.9	12.0	9.0
110°	50.9	41.9	20.9	6.0	3.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	44.9	35.9	20.9	6.0	0.0
115°	38.9	32.9	18.0	3.0	0.0
117.5°	35.9	26.9	15.0	3.0	0.0
120°	29.9	23.9	12.0	3.0	0.0
122.5°	26.9	20.9	12.0	3.0	0.0
125°	23.9	18.0	9.0	0.0	0.0
127.5°	20.9	15.0	9.0	0.0	0.0
130°	18.0	15.0	6.0	0.0	0.0
132.5°	15.0	12.0	6.0	0.0	0.0
135°	12.0	9.0	3.0	0.0	0.0
137.5°	9.0	9.0	3.0	0.0	0.0
140°	9.0	6.0	3.0	0.0	0.0
142.5°	6.0	6.0	0.0	0.0	0.0
145°	6.0	3.0	0.0	0.0	0.0
147.5°	3.0	3.0	0.0	0.0	0.0
150°	3.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	3.0	3.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	3.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	3.0	3.0	3.0
180°	0.0	0.0	0.0	0.0	0.0



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	17.32	18.92	17.72	19.29	19.67	16.36	17.97	16.77	18.34	18.72
	3H	19.20	20.66	19.62	21.04	21.47	18.10	19.56	18.52	19.94	20.36
	4H	19.99	21.36	20.43	21.77	22.20	18.80	20.17	19.23	20.57	21.01
	6H	20.64	21.92	21.09	22.33	22.79	19.39	20.67	19.84	21.08	21.53
	8H	20.88	22.11	21.35	22.55	23.01	19.62	20.85	20.09	21.29	21.75
	12H	21.09	22.26	21.56	22.70	23.19	19.83	21.00	20.30	21.43	21.92
4H	2H	17.81	19.19	18.25	19.59	20.03	17.05	18.43	17.49	18.83	19.27
	3H	19.93	21.10	20.38	21.54	22.00	19.01	20.18	19.46	20.62	21.09
	4H	20.86	21.91	21.33	22.38	22.87	19.84	20.90	20.31	21.36	21.85
	6H	21.66	22.59	22.15	23.08	23.59	20.57	21.50	21.06	21.99	22.50
	8H	21.97	22.85	22.47	23.34	23.86	20.87	21.74	21.37	22.23	22.75
	12H	22.25	23.04	22.77	23.56	24.09	21.14	21.93	21.66	22.45	22.97
8H	4H	21.12	22.00	21.62	22.49	23.01	20.23	21.11	20.73	21.59	22.12
	6H	22.07	22.80	22.60	23.33	23.87	21.11	21.84	21.64	22.38	22.91
	8H	22.48	23.14	23.02	23.69	24.23	21.51	22.17	22.05	22.72	23.26
	12H	22.87	23.46	23.42	23.99	24.61	21.88	22.47	22.43	23.01	23.62
12H	4H	21.16	21.95	21.68	22.47	23.00	20.30	21.09	20.81	21.61	22.13
	6H	22.13	22.79	22.67	23.34	23.88	21.21	21.88	21.76	22.42	22.97
	8H	22.61	23.20	23.15	23.73	24.34	21.68	22.27	22.23	22.81	23.42