

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: P571878

Luminaire Tested: 22ID-20-L830-DBD

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P571878
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: 22ID-20-L830-DBD
Description: 2000 LUMEN, 2X2 INDEPTH TROFFER WITH 2IN DROPPED DOUBLE BARRELL LENS AND 3000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1978.0 lumens
Efficiency: N/A
Efficacy: 121.4 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

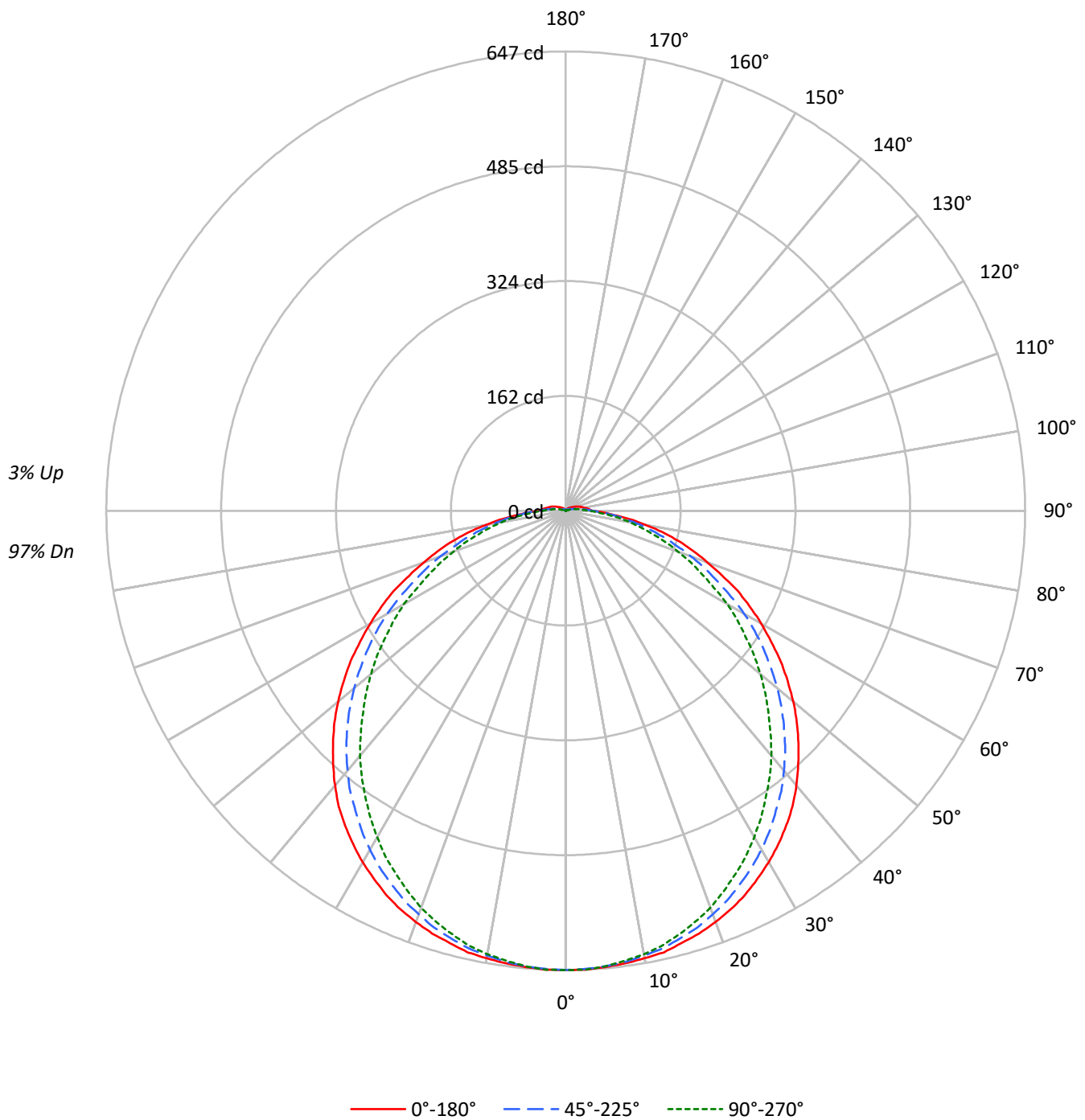
Input Watts (W): 16.3
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P571878

CATALOG NUMBER: 22ID-20-L830-DBD

Luminous Intensity Polar Plot



TEST NUMBER: P571878

CATALOG NUMBER: 22ID-20-L830-DBD

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	118	118	118	118	115	115	115	115	110	110	110	104	104	104	100	100	100
1	107	102	98	93	104	100	95	92	95	91	88	90	88	85	86	84	82
2	97	89	81	75	94	87	80	74	82	77	72	79	74	70	75	72	68
3	89	78	69	62	86	76	68	62	72	66	60	69	64	59	66	62	58
4	81	69	60	53	78	67	59	52	64	57	51	62	55	50	59	54	49
5	74	61	52	45	72	60	51	45	58	50	44	55	49	43	53	47	43
6	69	55	46	39	67	54	45	39	52	44	39	50	43	38	48	42	38
7	64	50	41	35	62	49	41	35	47	40	34	46	39	34	44	38	33
8	59	46	37	31	57	45	37	31	43	36	30	42	35	30	40	34	30
9	55	42	33	28	54	41	33	28	40	32	27	38	32	27	37	31	27
10	52	39	31	25	50	38	30	25	37	30	25	36	29	25	35	29	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1741	1741	1741
5°	1730	1722	1728
10°	1724	1704	1708
15°	1718	1684	1684
20°	1714	1662	1655
25°	1707	1634	1615
30°	1695	1604	1574
35°	1681	1566	1526
40°	1659	1528	1479
45°	1627	1481	1418
50°	1593	1428	1363
55°	1549	1366	1295
60°	1494	1297	1237
65°	1442	1197	1146
70°	1358	1116	1076
75°	1302	1023	1000
80°	1204	935	946
85°	1082	848	897

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1627 cd/sqm

TEST NUMBER: P571878

CATALOG NUMBER: 22ID-20-L830-DBD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.3	3.1
10°-20°	176.2	8.9
20°-30°	267.8	13.5
30°-40°	323.3	16.3
40°-50°	335.3	16.9
50°-60°	303.9	15.4
60°-70°	235.9	11.9
70°-80°	151.9	7.7
80°-90°	71.7	3.6
90°-100°	27.8	1.4
100°-110°	12.3	0.6
110°-120°	6.0	0.3
120°-130°	3.0	0.2
130°-140°	1.3	0.1
140°-150°	0.4	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	505.2	25.5
0°-40°	828.5	41.9
0°-60°	1467.7	74.2
0°-90°	1927.1	97.4
90°-120°	46.2	2.3
90°-150°	50.9	2.6
90°-180°	51.0	2.6
0°-180°	1978.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	647	647	647	647	647	
5°	645	645	644	643	644	61
15°	630	628	624	620	618	178
25°	597	592	581	570	565	275
35°	542	534	516	500	492	339
45°	463	456	435	414	404	358
55°	370	361	340	319	309	330
65°	267	255	236	220	212	263
75°	164	154	142	132	126	173
85°	68	68	64	61	57	66
90°	38	40	38	34	31	22
95°	31	26	24	22	20	24
105°	22	17	9	6	5	22
115°	13	11	6	1	0	13
125°	8	6	3	0	0	7
135°	4	3	1	0	0	3
145°	2	1	0	0	0	1
155°	0	0	0	0	0	0
165°	0	0	0	1	1	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0

TEST NUMBER: P571878

CATALOG NUMBER: 22ID-20-L830-DBD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	647.1	647.1	647.1	647.1	647.1
2.5°	647.1	646.1	646.1	646.1	647.1
5°	645.2	645.2	644.2	643.2	644.2
7.5°	643.2	642.2	641.2	640.3	639.3
10°	640.3	639.3	636.4	634.4	634.4
12.5°	637.3	634.4	631.5	628.5	627.6
15°	630.5	628.5	623.7	619.7	617.8
17.5°	624.6	621.7	615.8	610.0	607.0
20°	616.8	612.9	605.1	598.2	595.3
22.5°	608.0	603.1	594.3	584.6	580.6
25°	597.3	592.4	580.6	569.9	565.0
27.5°	584.6	579.7	567.0	553.3	549.4
30°	571.8	566.0	551.3	536.7	530.8
32.5°	557.2	550.3	534.7	518.1	512.2
35°	541.5	533.7	516.1	499.5	491.7
37.5°	524.9	517.1	498.5	480.0	472.1
40°	505.4	497.6	478.0	457.5	450.6
42.5°	484.8	477.0	457.5	436.0	427.2
45°	463.3	455.5	435.0	413.5	403.7
47.5°	441.8	434.0	412.5	391.0	381.2
50°	418.4	410.6	389.1	366.6	357.8
52.5°	393.9	386.1	364.6	343.1	334.3
55°	369.5	360.7	340.2	318.7	308.9
57.5°	343.1	335.3	315.7	295.2	286.4
60°	317.7	308.9	290.3	270.8	263.0
62.5°	292.3	282.5	263.0	243.4	235.6
65°	266.9	255.1	235.6	219.9	212.1
67.5°	238.5	227.8	212.1	196.5	190.6
70°	212.1	203.3	187.7	175.0	168.1
72.5°	188.7	177.9	163.2	153.5	147.6
75°	164.2	153.5	141.7	132.0	126.1
77.5°	138.8	130.0	120.2	113.4	107.5
80°	114.4	107.5	100.7	93.8	89.9
82.5°	89.9	86.0	82.1	77.2	73.3
85°	68.4	68.4	64.5	60.6	56.7
87.5°	50.8	51.8	49.9	45.9	43.0
90°	38.1	40.1	38.1	34.2	31.3
92.5°	34.2	32.3	30.3	28.3	25.4
95°	31.3	26.4	24.4	22.5	20.5
97.5°	28.3	22.5	19.6	17.6	15.6
100°	25.4	19.6	14.7	12.7	11.7
102.5°	23.5	18.6	11.7	8.8	8.8
105°	21.5	16.6	8.8	5.9	4.9
107.5°	18.6	14.7	7.8	3.9	2.9
110°	16.6	13.7	6.8	2.0	1.0

TEST NUMBER: P571878

CATALOG NUMBER: 22ID-20-L830-DBD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	14.7	11.7	6.8	2.0	0.0
115°	12.7	10.8	5.9	1.0	0.0
117.5°	11.7	8.8	4.9	1.0	0.0
120°	9.8	7.8	3.9	1.0	0.0
122.5°	8.8	6.8	3.9	1.0	0.0
125°	7.8	5.9	2.9	0.0	0.0
127.5°	6.8	4.9	2.9	0.0	0.0
130°	5.9	4.9	2.0	0.0	0.0
132.5°	4.9	3.9	2.0	0.0	0.0
135°	3.9	2.9	1.0	0.0	0.0
137.5°	2.9	2.9	1.0	0.0	0.0
140°	2.9	2.0	1.0	0.0	0.0
142.5°	2.0	2.0	0.0	0.0	0.0
145°	2.0	1.0	0.0	0.0	0.0
147.5°	1.0	1.0	0.0	0.0	0.0
150°	1.0	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	1.0	1.0
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	1.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	1.0	1.0	1.0
180°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P571878
CATALOG NUMBER: 22ID-20-L830-DBD

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	13.43	15.03	13.83	15.40	15.78	12.48	14.08	12.88	14.45	14.83
	3H	15.32	16.78	15.74	17.16	17.58	14.21	15.67	14.63	16.05	16.47
	4H	16.10	17.48	16.54	17.88	18.32	14.91	16.29	15.35	16.69	17.12
	6H	16.75	18.03	17.20	18.45	18.90	15.50	16.78	15.95	17.19	17.65
	8H	17.00	18.22	17.46	18.66	19.12	15.74	16.96	16.20	17.40	17.86
	12H	17.20	18.38	17.67	18.81	19.30	15.94	17.11	16.41	17.55	18.04
4H	2H	13.93	15.30	14.36	15.70	16.14	13.17	14.54	13.60	14.94	15.38
	3H	16.05	17.21	16.50	17.66	18.12	15.13	16.29	15.58	16.74	17.20
	4H	16.97	18.03	17.44	18.49	18.99	15.95	17.01	16.42	17.47	17.97
	6H	17.77	18.70	18.26	19.19	19.70	16.68	17.61	17.17	18.10	18.61
	8H	18.09	18.96	18.59	19.45	19.97	16.98	17.86	17.48	18.34	18.87
	12H	18.36	19.15	18.88	19.67	20.20	17.25	18.04	17.77	18.56	19.09
8H	4H	17.24	18.11	17.74	18.60	19.13	16.35	17.22	16.84	17.71	18.23
	6H	18.18	18.91	18.71	19.45	19.98	17.22	17.96	17.75	18.49	19.02
	8H	18.59	19.25	19.14	19.80	20.35	17.62	18.28	18.16	18.83	19.37
	12H	18.98	19.57	19.53	20.11	20.72	18.00	18.59	18.54	19.12	19.74
12H	4H	17.27	18.06	17.79	18.58	19.11	16.41	17.20	16.93	17.72	18.25
	6H	18.24	18.90	18.79	19.45	20.00	17.33	17.99	17.87	18.54	19.08
	8H	18.72	19.31	19.27	19.84	20.46	17.80	18.38	18.34	18.92	19.53