

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: P571882

Luminaire Tested: 22ID-20-L835-DBD

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P571882
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-L835-DBD
Description: 2000 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: 2010.0 lumens
Efficiency: N/A
Efficacy: 123.3 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

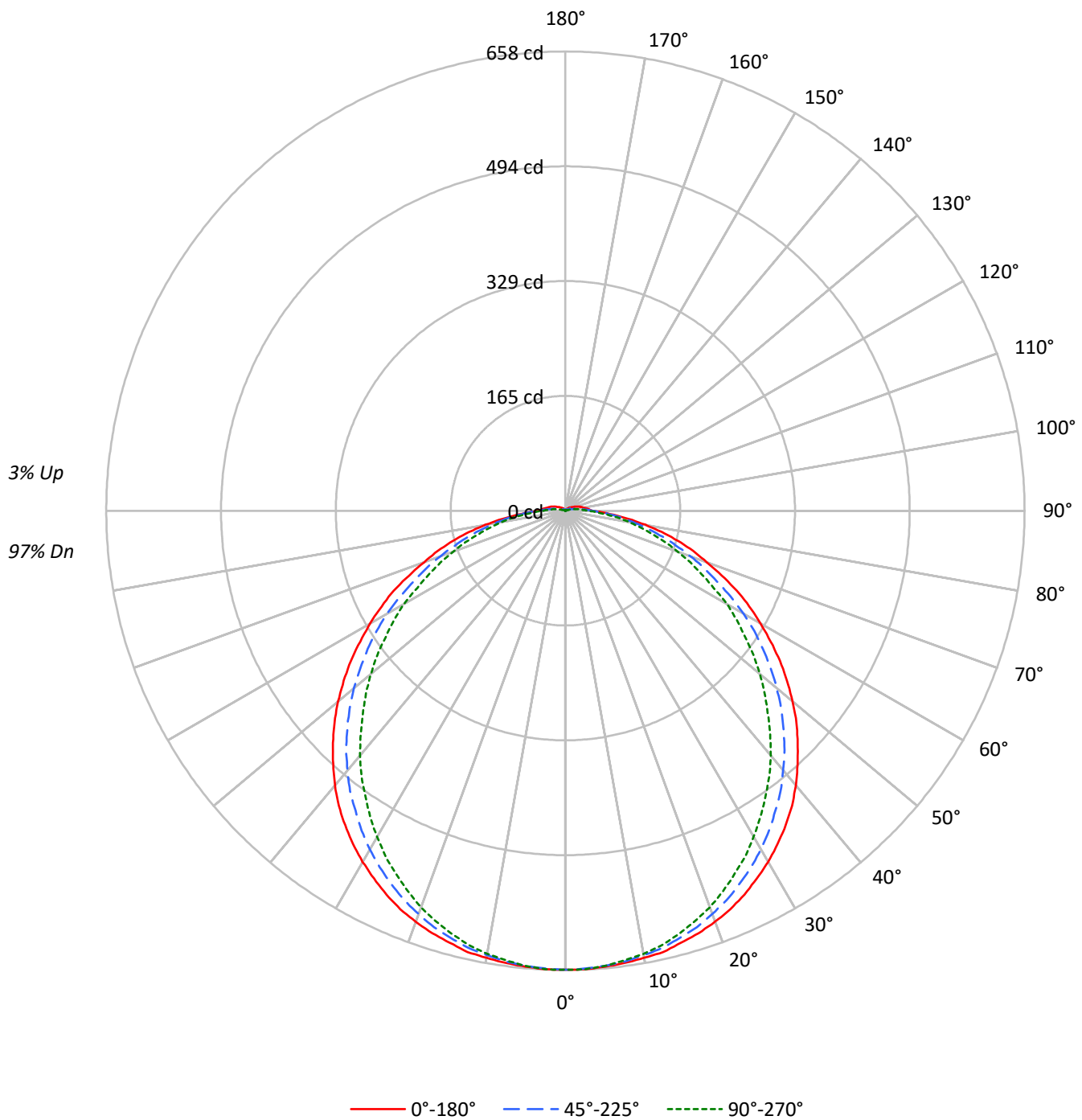
Input Watts (W): 16.3
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P571882

CATALOG NUMBER: 22ID-20-L835-DBD

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
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°	1770	1770	1770
5°	1758	1750	1755
10°	1752	1731	1736
15°	1746	1711	1711
20°	1742	1688	1681
25°	1735	1661	1641
30°	1723	1630	1599
35°	1708	1592	1551
40°	1686	1553	1503
45°	1654	1505	1441
50°	1619	1451	1385
55°	1574	1388	1316
60°	1518	1318	1257
65°	1465	1217	1165
70°	1380	1133	1094
75°	1324	1040	1016
80°	1223	950	962
85°	1099	863	911

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1654 cd/sqm

TEST NUMBER: P571882

CATALOG NUMBER: 22ID-20-L835-DBD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.3	3.1
10°-20°	179.1	8.9
20°-30°	272.1	13.5
30°-40°	328.5	16.3
40°-50°	340.7	16.9
50°-60°	308.8	15.4
60°-70°	239.7	11.9
70°-80°	154.3	7.7
80°-90°	72.9	3.6
90°-100°	28.3	1.4
100°-110°	12.5	0.6
110°-120°	6.1	0.3
120°-130°	3.1	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°	513.4	25.5
0°-40°	841.9	41.9
0°-60°	1491.4	74.2
0°-90°	1958.3	97.4
90°-120°	46.9	2.3
90°-150°	51.7	2.6
90°-180°	52.0	2.6
0°-180°	2010.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	658	658	658	658	658	
5°	656	656	655	654	655	62
15°	641	639	634	630	628	181
25°	607	602	590	579	574	280
35°	550	542	524	508	500	344
45°	471	463	442	420	410	363
55°	376	366	346	324	314	335
65°	271	259	239	224	216	267
75°	167	156	144	134	128	176
85°	70	70	66	62	58	67
90°	39	41	39	35	32	22
95°	32	27	25	23	21	25
105°	22	17	9	6	5	23
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	

TEST NUMBER: P571882

CATALOG NUMBER: 22ID-20-L835-DBD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	657.6	657.6	657.6	657.6	657.6
2.5°	657.6	656.6	656.6	656.6	657.6
5°	655.6	655.6	654.6	653.6	654.6
7.5°	653.6	652.6	651.6	650.6	649.6
10°	650.6	649.6	646.7	644.7	644.7
12.5°	647.7	644.7	641.7	638.7	637.7
15°	640.7	638.7	633.7	629.8	627.8
17.5°	634.7	631.8	625.8	619.8	616.9
20°	626.8	622.8	614.9	607.9	604.9
22.5°	617.9	612.9	603.9	594.0	590.0
25°	606.9	602.0	590.0	579.1	574.1
27.5°	594.0	589.0	576.1	562.2	558.3
30°	581.1	575.1	560.2	545.3	539.4
32.5°	566.2	559.2	543.4	526.5	520.5
35°	550.3	542.4	524.5	507.6	499.6
37.5°	533.4	525.5	506.6	487.7	479.8
40°	513.6	505.6	485.7	464.9	457.9
42.5°	492.7	484.7	464.9	443.0	434.1
45°	470.8	462.9	442.0	420.2	410.2
47.5°	449.0	441.0	419.2	397.3	387.4
50°	425.1	417.2	395.3	372.5	363.6
52.5°	400.3	392.4	370.5	348.7	339.7
55°	375.5	366.5	345.7	323.8	313.9
57.5°	348.7	340.7	320.8	300.0	291.0
60°	322.8	313.9	295.0	275.2	267.2
62.5°	297.0	287.1	267.2	247.3	239.4
65°	271.2	259.3	239.4	223.5	215.6
67.5°	242.4	231.4	215.6	199.7	193.7
70°	215.6	206.6	190.7	177.8	170.9
72.5°	191.7	180.8	165.9	156.0	150.0
75°	166.9	156.0	144.0	134.1	128.1
77.5°	141.1	132.1	122.2	115.2	109.3
80°	116.2	109.3	102.3	95.4	91.4
82.5°	91.4	87.4	83.4	78.5	74.5
85°	69.5	69.5	65.6	61.6	57.6
87.5°	51.7	52.6	50.7	46.7	43.7
90°	38.7	40.7	38.7	34.8	31.8
92.5°	34.8	32.8	30.8	28.8	25.8
95°	31.8	26.8	24.8	22.8	20.9
97.5°	28.8	22.8	19.9	17.9	15.9
100°	25.8	19.9	14.9	12.9	11.9
102.5°	23.8	18.9	11.9	8.9	8.9
105°	21.9	16.9	8.9	6.0	5.0
107.5°	18.9	14.9	7.9	4.0	3.0
110°	16.9	13.9	7.0	2.0	1.0

TEST NUMBER: P571882

CATALOG NUMBER: 22ID-20-L835-DBD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	14.9	11.9	7.0	2.0	0.0
115°	12.9	10.9	6.0	1.0	0.0
117.5°	11.9	8.9	5.0	1.0	0.0
120°	9.9	7.9	4.0	1.0	0.0
122.5°	8.9	7.0	4.0	1.0	0.0
125°	7.9	6.0	3.0	0.0	0.0
127.5°	7.0	5.0	3.0	0.0	0.0
130°	6.0	5.0	2.0	0.0	0.0
132.5°	5.0	4.0	2.0	0.0	0.0
135°	4.0	3.0	1.0	0.0	0.0
137.5°	3.0	3.0	1.0	0.0	0.0
140°	3.0	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

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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	13.49	15.09	13.89	15.46	15.84	12.53	14.14	12.94	14.51	14.89
	3H	15.37	16.83	15.79	17.21	17.64	14.27	15.73	14.69	16.11	16.53
	4H	16.16	17.53	16.60	17.93	18.37	14.97	16.34	15.40	16.74	17.18
	6H	16.81	18.09	17.26	18.50	18.96	15.56	16.84	16.01	17.25	17.70
	8H	17.05	18.28	17.52	18.72	19.18	15.79	17.02	16.26	17.46	17.92
	12H	17.26	18.43	17.73	18.87	19.36	16.00	17.17	16.47	17.60	18.09
4H	2H	13.98	15.36	14.42	15.76	16.20	13.22	14.60	13.66	15.00	15.44
	3H	16.10	17.27	16.55	17.71	18.17	15.18	16.35	15.63	16.79	17.26
	4H	17.02	18.08	17.50	18.55	19.04	16.01	17.07	16.48	17.53	18.02
	6H	17.83	18.76	18.32	19.25	19.76	16.74	17.67	17.23	18.16	18.67
	8H	18.14	19.02	18.64	19.51	20.03	17.04	17.91	17.54	18.40	18.92
	12H	18.42	19.21	18.94	19.73	20.26	17.31	18.10	17.83	18.62	19.14
8H	4H	17.29	18.17	17.79	18.66	19.18	16.40	17.28	16.90	17.76	18.29
	6H	18.24	18.97	18.77	19.50	20.04	17.28	18.01	17.81	18.55	19.08
	8H	18.65	19.31	19.19	19.86	20.40	17.68	18.34	18.22	18.89	19.43
	12H	19.04	19.63	19.59	20.16	20.78	18.05	18.64	18.60	19.18	19.79
12H	4H	17.33	18.12	17.85	18.64	19.17	16.46	17.25	16.98	17.77	18.30
	6H	18.30	18.96	18.84	19.51	20.05	17.38	18.04	17.93	18.59	19.14
	8H	18.78	19.37	19.32	19.90	20.51	17.85	18.44	18.40	18.98	19.59