

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: P571914

Luminaire Tested: 22ID-30-L835-DBD

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P571914
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-30-L835-DBD
Description: 3000 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: 3001.0 lumens
Efficiency: N/A
Efficacy: 124.0 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

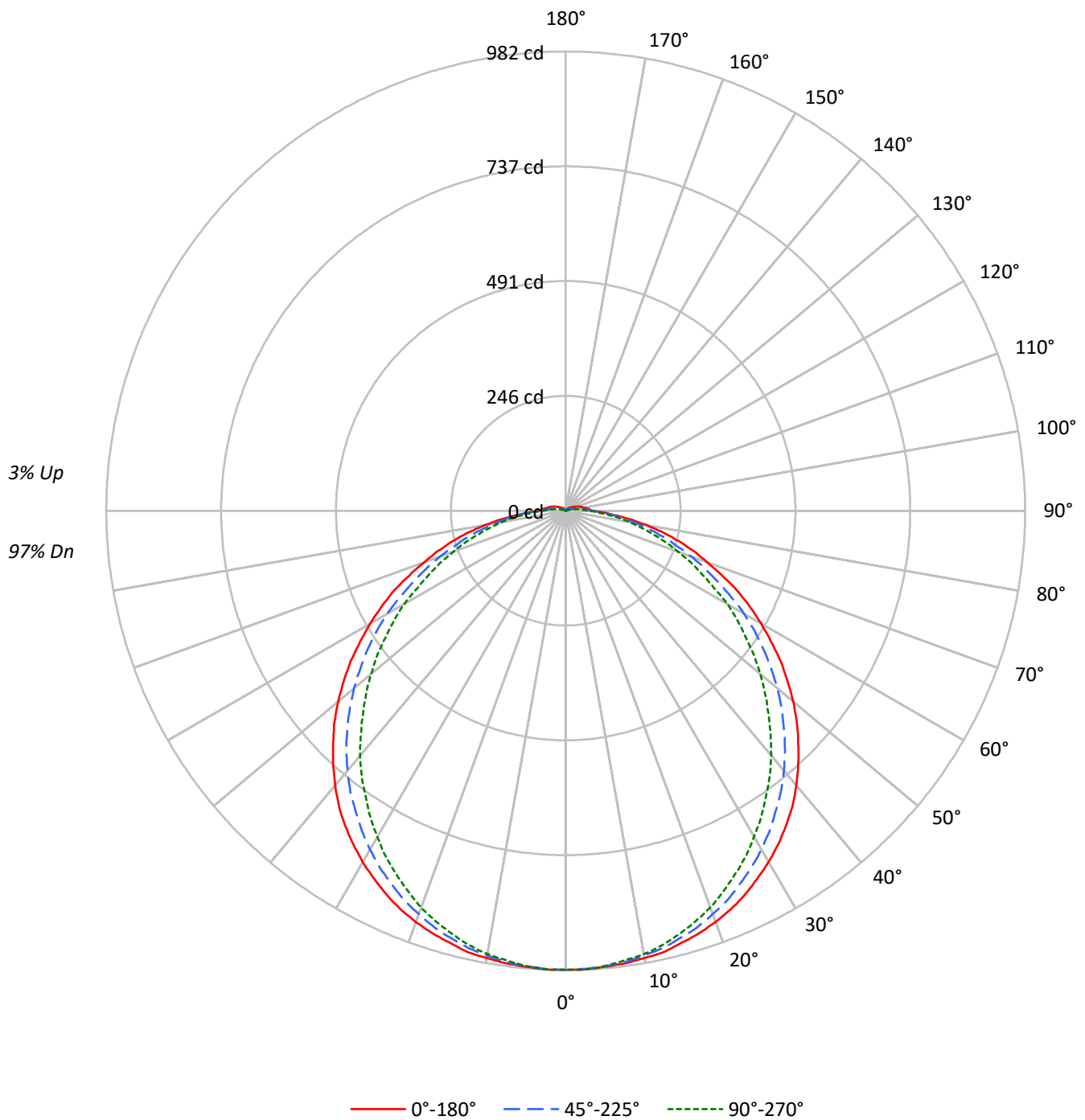
Input Watts (W): 24.2
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P571914

CATALOG NUMBER: 22ID-30-L835-DBD

Luminous Intensity Polar Plot



TEST NUMBER: P571914

CATALOG NUMBER: 22ID-30-L835-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°	2642	2642	2642
5°	2625	2613	2621
10°	2616	2585	2592
15°	2607	2555	2554
20°	2601	2521	2510
25°	2590	2479	2450
30°	2572	2434	2387
35°	2550	2376	2316
40°	2517	2318	2245
45°	2470	2247	2152
50°	2417	2167	2067
55°	2350	2072	1965
60°	2267	1969	1876
65°	2187	1817	1738
70°	2060	1693	1633
75°	1976	1552	1517
80°	1826	1419	1435
85°	1641	1288	1360

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 2470 cd/sqm

TEST NUMBER: P571914

CATALOG NUMBER: 22ID-30-L835-DBD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.0	3.1
10°-20°	267.3	8.9
20°-30°	406.2	13.5
30°-40°	490.5	16.3
40°-50°	508.6	16.9
50°-60°	461.1	15.4
60°-70°	357.8	11.9
70°-80°	230.4	7.7
80°-90°	108.8	3.6
90°-100°	42.2	1.4
100°-110°	18.6	0.6
110°-120°	9.1	0.3
120°-130°	4.6	0.2
130°-140°	2.0	0.1
140°-150°	0.5	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	766.5	25.5
0°-40°	1257.0	41.9
0°-60°	2226.7	74.2
0°-90°	2923.8	97.4
90°-120°	70.0	2.3
90°-150°	77.1	2.6
90°-180°	77.0	2.6
0°-180°	3001.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	982	982	982	982	982	
5°	979	979	977	976	977	93
15°	957	954	946	940	937	271
25°	906	899	881	865	857	418
35°	822	810	783	758	746	514
45°	703	691	660	627	612	543
55°	561	547	516	484	469	500
65°	405	387	357	334	322	399
75°	249	233	215	200	191	262
85°	104	104	98	92	86	99
90°	58	61	58	52	48	34
95°	48	40	37	34	31	37
105°	33	25	13	9	7	34
115°	19	16	9	2	0	20
125°	12	9	4	0	0	11
135°	6	4	2	0	0	5
145°	3	2	0	0	0	2
155°	0	0	0	0	0	0
165°	0	0	0	2	2	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	

TEST NUMBER: P571914

CATALOG NUMBER: 22ID-30-L835-DBD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	981.8	981.8	981.8	981.8	981.8
2.5°	981.8	980.3	980.3	980.3	981.8
5°	978.8	978.8	977.3	975.9	977.3
7.5°	975.9	974.4	972.9	971.4	969.9
10°	971.4	969.9	965.5	962.5	962.5
12.5°	967.0	962.5	958.1	953.6	952.1
15°	956.6	953.6	946.2	940.3	937.3
17.5°	947.7	943.2	934.3	925.4	921.0
20°	935.8	929.9	918.0	907.6	903.2
22.5°	922.5	915.1	901.7	886.9	880.9
25°	906.2	898.7	880.9	864.6	857.2
27.5°	886.9	879.5	860.2	839.4	833.5
30°	867.6	858.7	836.5	814.2	805.3
32.5°	845.4	835.0	811.2	786.0	777.1
35°	821.6	809.8	783.1	757.9	746.0
37.5°	796.4	784.5	756.4	728.2	716.3
40°	766.7	754.9	725.2	694.1	683.7
42.5°	735.6	723.7	694.1	661.5	648.1
45°	703.0	691.1	660.0	627.3	612.5
47.5°	670.3	658.5	625.9	593.2	578.4
50°	634.8	622.9	590.3	556.2	542.8
52.5°	597.7	585.8	553.2	520.6	507.2
55°	560.6	547.3	516.1	483.5	468.7
57.5°	520.6	508.7	479.0	447.9	434.5
60°	482.0	468.7	440.5	410.8	398.9
62.5°	443.4	428.6	398.9	369.3	357.4
65°	404.9	387.1	357.4	333.7	321.8
67.5°	361.9	345.6	321.8	298.1	289.2
70°	321.8	308.5	284.8	265.5	255.1
72.5°	286.2	269.9	247.7	232.8	223.9
75°	249.2	232.8	215.0	200.2	191.3
77.5°	210.6	197.2	182.4	172.0	163.1
80°	173.5	163.1	152.8	142.4	136.4
82.5°	136.4	130.5	124.6	117.2	111.2
85°	103.8	103.8	97.9	92.0	86.0
87.5°	77.1	78.6	75.6	69.7	65.3
90°	57.8	60.8	57.8	51.9	47.5
92.5°	51.9	48.9	46.0	43.0	38.6
95°	47.5	40.0	37.1	34.1	31.1
97.5°	43.0	34.1	29.7	26.7	23.7
100°	38.6	29.7	22.2	19.3	17.8
102.5°	35.6	28.2	17.8	13.3	13.3
105°	32.6	25.2	13.3	8.9	7.4
107.5°	28.2	22.2	11.9	5.9	4.4
110°	25.2	20.8	10.4	3.0	1.5

TEST NUMBER: P571914

CATALOG NUMBER: 22ID-30-L835-DBD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	22.2	17.8	10.4	3.0	0.0
115°	19.3	16.3	8.9	1.5	0.0
117.5°	17.8	13.3	7.4	1.5	0.0
120°	14.8	11.9	5.9	1.5	0.0
122.5°	13.3	10.4	5.9	1.5	0.0
125°	11.9	8.9	4.4	0.0	0.0
127.5°	10.4	7.4	4.4	0.0	0.0
130°	8.9	7.4	3.0	0.0	0.0
132.5°	7.4	5.9	3.0	0.0	0.0
135°	5.9	4.4	1.5	0.0	0.0
137.5°	4.4	4.4	1.5	0.0	0.0
140°	4.4	3.0	1.5	0.0	0.0
142.5°	3.0	3.0	0.0	0.0	0.0
145°	3.0	1.5	0.0	0.0	0.0
147.5°	1.5	1.5	0.0	0.0	0.0
150°	1.5	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	1.5	1.5
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	1.5
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	1.5	1.5	1.5
180°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P571914
CATALOG NUMBER: 22ID-30-L835-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	14.88	16.48	15.28	16.85	17.23	13.92	15.53	14.33	15.90	16.28
	3H	16.77	18.22	17.18	18.61	19.03	15.66	17.12	16.08	17.50	17.92
	4H	17.55	18.93	17.99	19.33	19.76	16.36	17.74	16.80	18.14	18.57
	6H	18.20	19.48	18.65	19.90	20.35	16.95	18.23	17.40	18.64	19.10
	8H	18.45	19.67	18.91	20.11	20.57	17.18	18.41	17.65	18.85	19.31
	12H	18.65	19.83	19.12	20.26	20.75	17.39	18.56	17.86	19.00	19.49
4H	2H	15.37	16.75	15.81	17.15	17.59	14.61	15.99	15.05	16.39	16.83
	3H	17.49	18.66	17.94	19.11	19.57	16.57	17.74	17.02	18.19	18.65
	4H	18.42	19.48	18.89	19.94	20.43	17.40	18.46	17.87	18.92	19.42
	6H	19.22	20.15	19.71	20.64	21.15	18.13	19.06	18.62	19.55	20.06
	8H	19.53	20.41	20.03	20.90	21.42	18.43	19.30	18.93	19.79	20.32
	12H	19.81	20.60	20.33	21.12	21.65	18.70	19.49	19.22	20.01	20.54
8H	4H	18.69	19.56	19.19	20.05	20.57	17.79	18.67	18.29	19.16	19.68
	6H	19.63	20.36	20.16	20.90	21.43	18.67	19.41	19.20	19.94	20.47
	8H	20.04	20.70	20.59	21.25	21.79	19.07	19.73	19.61	20.28	20.82
	12H	20.43	21.02	20.98	21.56	22.17	19.45	20.04	19.99	20.57	21.18
12H	4H	18.72	19.51	19.24	20.03	20.56	17.86	18.65	18.38	19.17	19.70
	6H	19.69	20.35	20.24	20.90	21.44	18.77	19.44	19.32	19.99	20.53
	8H	20.17	20.76	20.71	21.29	21.91	19.24	19.83	19.79	20.37	20.98