

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: P571918

Luminaire Tested: 22ID-30-L840-DBD

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P571918
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-L840-DBD
Description: 3000 LUMEN, 2X2 INDEPTH TROFFER WITH 2IN DROPPED DOUBLE BARRELL LENS AND 4000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3095.0 lumens
Efficiency: N/A
Efficacy: 127.9 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

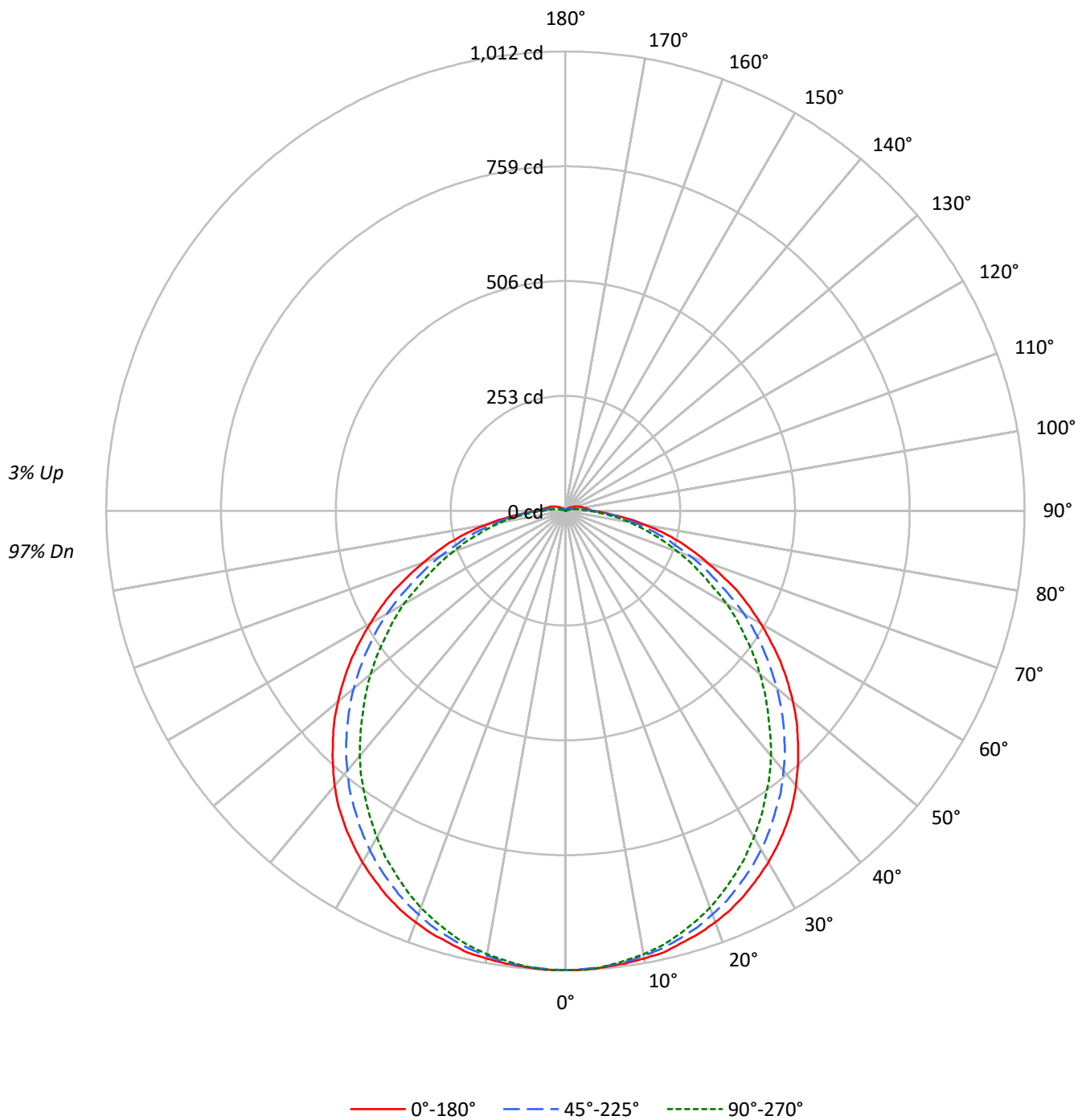
Input Watts (W): 24.2
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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
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°	2725	2725	2725
5°	2707	2695	2703
10°	2698	2665	2673
15°	2688	2635	2634
20°	2682	2600	2589
25°	2671	2557	2527
30°	2653	2510	2462
35°	2630	2451	2388
40°	2596	2391	2315
45°	2547	2317	2219
50°	2493	2235	2132
55°	2424	2137	2026
60°	2338	2030	1935
65°	2256	1873	1793
70°	2125	1746	1684
75°	2038	1602	1565
80°	1884	1463	1481
85°	1693	1327	1403

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 2547 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.9	3.1
10°-20°	275.7	8.9
20°-30°	419.0	13.5
30°-40°	505.8	16.3
40°-50°	524.6	16.9
50°-60°	475.5	15.4
60°-70°	369.0	11.9
70°-80°	237.6	7.7
80°-90°	112.2	3.6
90°-100°	43.6	1.4
100°-110°	19.2	0.6
110°-120°	9.4	0.3
120°-130°	4.7	0.2
130°-140°	2.0	0.1
140°-150°	0.6	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	790.5	25.5
0°-40°	1296.4	41.9
0°-60°	2296.5	74.2
0°-90°	3015.4	97.4
90°-120°	72.2	2.3
90°-150°	79.6	2.6
90°-180°	80.0	2.6
0°-180°	3095.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1012	1012	1012	1012	1012	
5°	1010	1010	1008	1006	1008	96
15°	986	984	976	970	967	279
25°	934	927	908	892	884	431
35°	847	835	808	782	769	530
45°	725	713	681	647	632	560
55°	578	564	532	499	483	516
65°	418	399	369	344	332	412
75°	257	240	222	206	197	270
85°	107	107	101	95	89	103
90°	60	63	60	54	49	35
95°	49	41	38	35	32	38
105°	34	26	14	9	8	35
115°	20	17	9	2	0	20
125°	12	9	5	0	0	11
135°	6	5	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	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1012.5	1012.5	1012.5	1012.5	1012.5
2.5°	1012.5	1011.0	1011.0	1011.0	1012.5
5°	1009.5	1009.5	1008.0	1006.4	1008.0
7.5°	1006.4	1004.9	1003.4	1001.8	1000.3
10°	1001.8	1000.3	995.7	992.7	992.7
12.5°	997.3	992.7	988.1	983.5	982.0
15°	986.5	983.5	975.8	969.7	966.7
17.5°	977.4	972.8	963.6	954.4	949.8
20°	965.1	959.0	946.8	936.1	931.5
22.5°	951.4	943.7	930.0	914.7	908.5
25°	934.5	926.9	908.5	891.7	884.1
27.5°	914.7	907.0	887.1	865.7	859.6
30°	894.8	885.6	862.7	839.7	830.5
32.5°	871.8	861.1	836.7	810.7	801.5
35°	847.4	835.1	807.6	781.6	769.4
37.5°	821.4	809.1	780.1	751.0	738.8
40°	790.8	778.5	747.9	715.8	705.1
42.5°	758.6	746.4	715.8	682.2	668.4
45°	725.0	712.8	680.6	647.0	631.7
47.5°	691.3	679.1	645.5	611.8	596.5
50°	654.6	642.4	608.8	573.6	559.8
52.5°	616.4	604.2	570.5	536.9	523.1
55°	578.2	564.4	532.3	498.6	483.3
57.5°	536.9	524.6	494.0	461.9	448.2
60°	497.1	483.3	454.3	423.7	411.4
62.5°	457.3	442.0	411.4	380.9	368.6
65°	417.6	399.2	368.6	344.1	331.9
67.5°	373.2	356.4	331.9	307.4	298.3
70°	331.9	318.1	293.7	273.8	263.1
72.5°	295.2	278.4	255.4	240.1	231.0
75°	257.0	240.1	221.8	206.5	197.3
77.5°	217.2	203.4	188.1	177.4	168.2
80°	179.0	168.2	157.5	146.8	140.7
82.5°	140.7	134.6	128.5	120.8	114.7
85°	107.1	107.1	100.9	94.8	88.7
87.5°	79.5	81.1	78.0	71.9	67.3
90°	59.7	62.7	59.7	53.5	48.9
92.5°	53.5	50.5	47.4	44.4	39.8
95°	48.9	41.3	38.2	35.2	32.1
97.5°	44.4	35.2	30.6	27.5	24.5
100°	39.8	30.6	22.9	19.9	18.4
102.5°	36.7	29.1	18.4	13.8	13.8
105°	33.6	26.0	13.8	9.2	7.6
107.5°	29.1	22.9	12.2	6.1	4.6
110°	26.0	21.4	10.7	3.1	1.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	22.9	18.4	10.7	3.1	0.0
115°	19.9	16.8	9.2	1.5	0.0
117.5°	18.4	13.8	7.6	1.5	0.0
120°	15.3	12.2	6.1	1.5	0.0
122.5°	13.8	10.7	6.1	1.5	0.0
125°	12.2	9.2	4.6	0.0	0.0
127.5°	10.7	7.6	4.6	0.0	0.0
130°	9.2	7.6	3.1	0.0	0.0
132.5°	7.6	6.1	3.1	0.0	0.0
135°	6.1	4.6	1.5	0.0	0.0
137.5°	4.6	4.6	1.5	0.0	0.0
140°	4.6	3.1	1.5	0.0	0.0
142.5°	3.1	3.1	0.0	0.0	0.0
145°	3.1	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

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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	14.98	16.59	15.39	16.96	17.34	14.03	15.64	14.44	16.01	16.38
	3H	16.87	18.33	17.29	18.71	19.13	15.77	17.23	16.19	17.61	18.03
	4H	17.66	19.03	18.09	19.43	19.87	16.47	17.84	16.90	18.24	18.68
	6H	18.31	19.59	18.76	20.00	20.46	17.05	18.33	17.51	18.75	19.20
	8H	18.55	19.78	19.02	20.22	20.68	17.29	18.52	17.76	18.96	19.42
	12H	18.76	19.93	19.23	20.37	20.86	17.50	18.67	17.97	19.10	19.59
4H	2H	15.48	16.86	15.92	17.26	17.70	14.72	16.10	15.16	16.50	16.94
	3H	17.60	18.76	18.05	19.21	19.67	16.68	17.85	17.13	18.29	18.75
	4H	18.52	19.58	19.00	20.04	20.54	17.51	18.57	17.98	19.03	19.52
	6H	19.33	20.26	19.82	20.75	21.26	18.24	19.17	18.73	19.66	20.17
	8H	19.64	20.52	20.14	21.01	21.53	18.54	19.41	19.04	19.90	20.42
	12H	19.92	20.71	20.44	21.23	21.76	18.81	19.60	19.32	20.12	20.64
8H	4H	18.79	19.67	19.29	20.16	20.68	17.90	18.78	18.40	19.26	19.79
	6H	19.73	20.47	20.27	21.00	21.53	18.78	19.51	19.31	20.04	20.58
	8H	20.15	20.81	20.69	21.36	21.90	19.17	19.84	19.72	20.38	20.93
	12H	20.54	21.13	21.09	21.66	22.28	19.55	20.14	20.10	20.68	21.29
12H	4H	18.83	19.62	19.35	20.14	20.66	17.96	18.75	18.48	19.27	19.80
	6H	19.80	20.46	20.34	21.01	21.55	18.88	19.54	19.43	20.09	20.64
	8H	20.28	20.86	20.82	21.40	22.01	19.35	19.94	19.90	20.47	21.09