

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: P571886

Luminaire Tested: 22ID-20-L840-DBD

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P571886
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-L840-DBD
Description: 2000 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: 2073.0 lumens
Efficiency: N/A
Efficacy: 127.2 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

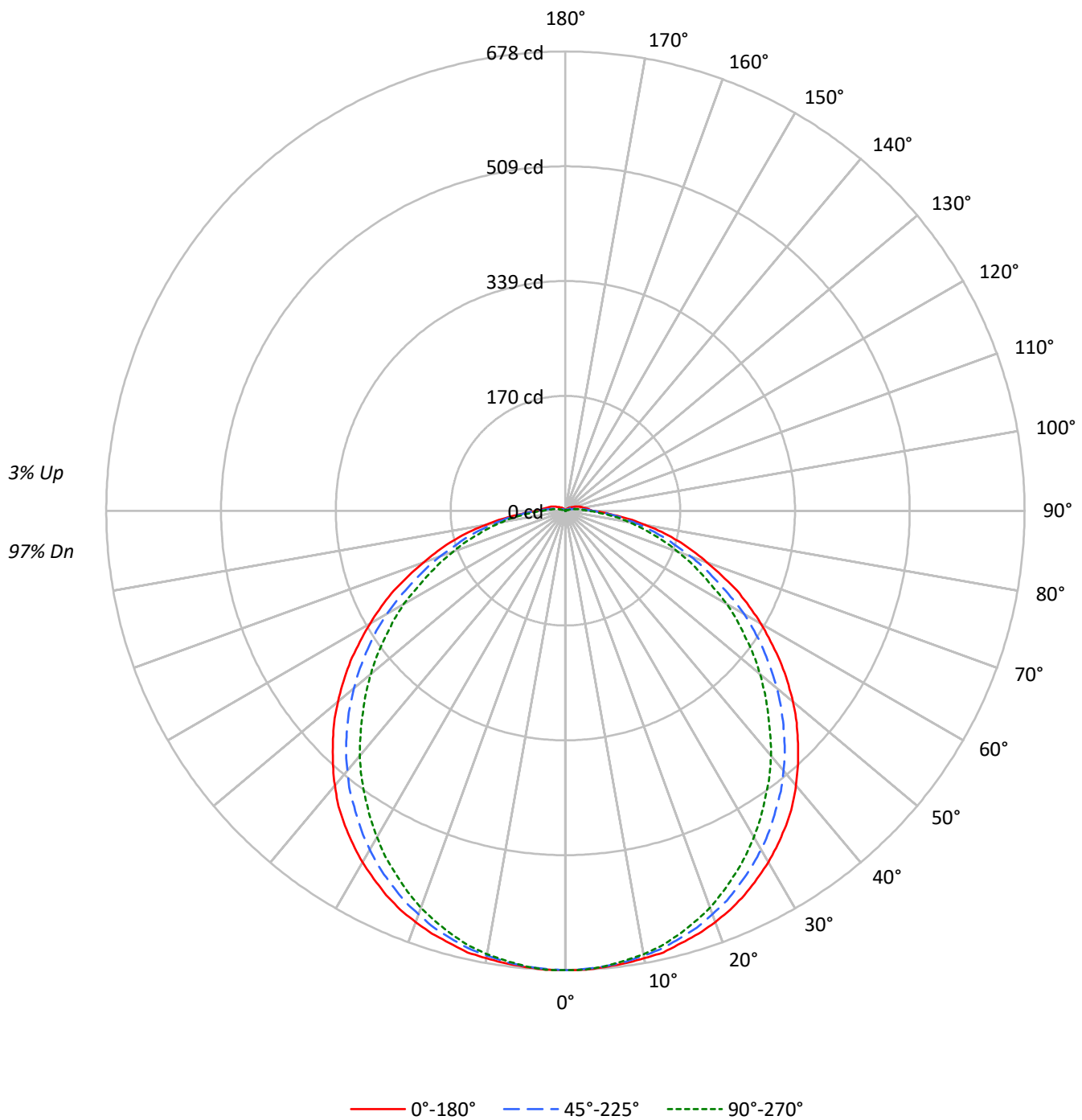
Input Watts (W): 16.3
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	1825	1825	1825
5°	1813	1805	1810
10°	1807	1785	1791
15°	1801	1765	1764
20°	1797	1741	1734
25°	1789	1713	1692
30°	1777	1681	1649
35°	1762	1641	1599
40°	1739	1602	1551
45°	1706	1552	1486
50°	1670	1497	1428
55°	1623	1432	1357
60°	1566	1360	1296
65°	1511	1255	1201
70°	1423	1169	1128
75°	1365	1072	1048
80°	1262	980	992
85°	1134	889	939

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1706 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.2	3.1
10°-20°	184.7	8.9
20°-30°	280.6	13.5
30°-40°	338.8	16.3
40°-50°	351.4	16.9
50°-60°	318.5	15.4
60°-70°	247.2	11.9
70°-80°	159.2	7.7
80°-90°	75.2	3.6
90°-100°	29.2	1.4
100°-110°	12.9	0.6
110°-120°	6.3	0.3
120°-130°	3.2	0.2
130°-140°	1.4	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°	529.5	25.5
0°-40°	868.3	41.9
0°-60°	1538.1	74.2
0°-90°	2019.7	97.4
90°-120°	48.4	2.3
90°-150°	53.3	2.6
90°-180°	53.0	2.6
0°-180°	2073.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	678	678	678	678	678	
5°	676	676	675	674	675	64
15°	661	659	654	650	648	187
25°	626	621	608	597	592	288
35°	568	559	541	524	515	355
45°	486	477	456	433	423	375
55°	387	378	356	334	324	346
65°	280	267	247	230	222	276
75°	172	161	148	138	132	181
85°	72	72	68	64	59	69
90°	40	42	40	36	33	23
95°	33	28	26	24	22	26
105°	22	17	9	6	5	23
115°	13	11	6	1	0	14
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

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	678.2	678.2	678.2	678.2	678.2
2.5°	678.2	677.2	677.2	677.2	678.2
5°	676.1	676.1	675.1	674.1	675.1
7.5°	674.1	673.1	672.0	671.0	670.0
10°	671.0	670.0	666.9	664.9	664.9
12.5°	667.9	664.9	661.8	658.7	657.7
15°	660.8	658.7	653.6	649.5	647.5
17.5°	654.6	651.6	645.4	639.3	636.2
20°	646.4	642.3	634.1	627.0	623.9
22.5°	637.2	632.1	622.9	612.6	608.5
25°	625.9	620.8	608.5	597.3	592.1
27.5°	612.6	607.5	594.2	579.8	575.7
30°	599.3	593.2	577.8	562.4	556.3
32.5°	583.9	576.8	560.4	543.0	536.8
35°	567.6	559.4	540.9	523.5	515.3
37.5°	550.1	541.9	522.5	503.0	494.8
40°	529.6	521.5	501.0	479.4	472.3
42.5°	508.1	499.9	479.4	456.9	447.7
45°	485.6	477.4	455.9	433.3	423.1
47.5°	463.1	454.9	432.3	409.8	399.5
50°	438.5	430.3	407.7	384.2	375.0
52.5°	412.9	404.7	382.1	359.6	350.4
55°	387.2	378.0	356.5	334.0	323.7
57.5°	359.6	351.4	330.9	309.4	300.2
60°	333.0	323.7	304.3	283.8	275.6
62.5°	306.3	296.1	275.6	255.1	246.9
65°	279.7	267.4	246.9	230.5	222.3
67.5°	250.0	238.7	222.3	205.9	199.8
70°	222.3	213.1	196.7	183.4	176.2
72.5°	197.7	186.5	171.1	160.8	154.7
75°	172.1	160.8	148.5	138.3	132.2
77.5°	145.5	136.3	126.0	118.8	112.7
80°	119.9	112.7	105.5	98.3	94.3
82.5°	94.3	90.2	86.1	80.9	76.8
85°	71.7	71.7	67.6	63.5	59.4
87.5°	53.3	54.3	52.2	48.1	45.1
90°	40.0	42.0	40.0	35.9	32.8
92.5°	35.9	33.8	31.8	29.7	26.6
95°	32.8	27.7	25.6	23.6	21.5
97.5°	29.7	23.6	20.5	18.4	16.4
100°	26.6	20.5	15.4	13.3	12.3
102.5°	24.6	19.5	12.3	9.2	9.2
105°	22.5	17.4	9.2	6.1	5.1
107.5°	19.5	15.4	8.2	4.1	3.1
110°	17.4	14.3	7.2	2.0	1.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	15.4	12.3	7.2	2.0	0.0
115°	13.3	11.3	6.1	1.0	0.0
117.5°	12.3	9.2	5.1	1.0	0.0
120°	10.2	8.2	4.1	1.0	0.0
122.5°	9.2	7.2	4.1	1.0	0.0
125°	8.2	6.1	3.1	0.0	0.0
127.5°	7.2	5.1	3.1	0.0	0.0
130°	6.1	5.1	2.0	0.0	0.0
132.5°	5.1	4.1	2.0	0.0	0.0
135°	4.1	3.1	1.0	0.0	0.0
137.5°	3.1	3.1	1.0	0.0	0.0
140°	3.1	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	13.59	15.20	14.00	15.57	15.95	12.64	14.24	13.04	14.61	14.99
	3H	15.48	16.94	15.90	17.32	17.74	14.38	15.83	14.79	16.22	16.64
	4H	16.26	17.64	16.70	18.04	18.48	15.07	16.45	15.51	16.85	17.29
	6H	16.91	18.19	17.37	18.61	19.06	15.66	16.94	16.11	17.36	17.81
	8H	17.16	18.39	17.63	18.83	19.29	15.90	17.12	16.36	17.56	18.02
	12H	17.37	18.54	17.84	18.97	19.46	16.10	17.28	16.57	17.71	18.20
4H	2H	14.09	15.47	14.53	15.87	16.30	13.33	14.71	13.77	15.11	15.54
	3H	16.21	17.37	16.66	17.82	18.28	15.29	16.45	15.74	16.90	17.36
	4H	17.13	18.19	17.60	18.65	19.15	16.12	17.18	16.59	17.64	18.13
	6H	17.93	18.87	18.43	19.35	19.87	16.84	17.78	17.34	18.26	18.78
	8H	18.25	19.12	18.75	19.61	20.14	17.14	18.02	17.64	18.51	19.03
	12H	18.53	19.32	19.05	19.84	20.37	17.41	18.20	17.93	18.72	19.25
8H	4H	17.40	18.28	17.90	18.76	19.29	16.51	17.38	17.01	17.87	18.40
	6H	18.34	19.08	18.87	19.61	20.14	17.38	18.12	17.92	18.65	19.18
	8H	18.76	19.42	19.30	19.97	20.51	17.78	18.44	18.33	18.99	19.54
	12H	19.15	19.74	19.69	20.27	20.89	18.16	18.75	18.71	19.28	19.90
12H	4H	17.43	18.22	17.95	18.74	19.27	16.57	17.36	17.09	17.88	18.41
	6H	18.40	19.07	18.95	19.62	20.16	17.49	18.15	18.03	18.70	19.24
	8H	18.88	19.47	19.43	20.01	20.62	17.96	18.55	18.50	19.08	19.70