

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: P571906

Luminaire Tested: 22ID-25-L850-DBD

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P571906
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-25-L850-DBD
Description: 2500 LUMEN, 2X2 INDEPTH TROFFER WITH 2IN DROPPED DOUBLE BARRELL LENS AND 5000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2723.0 lumens
Efficiency: N/A
Efficacy: 132.2 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

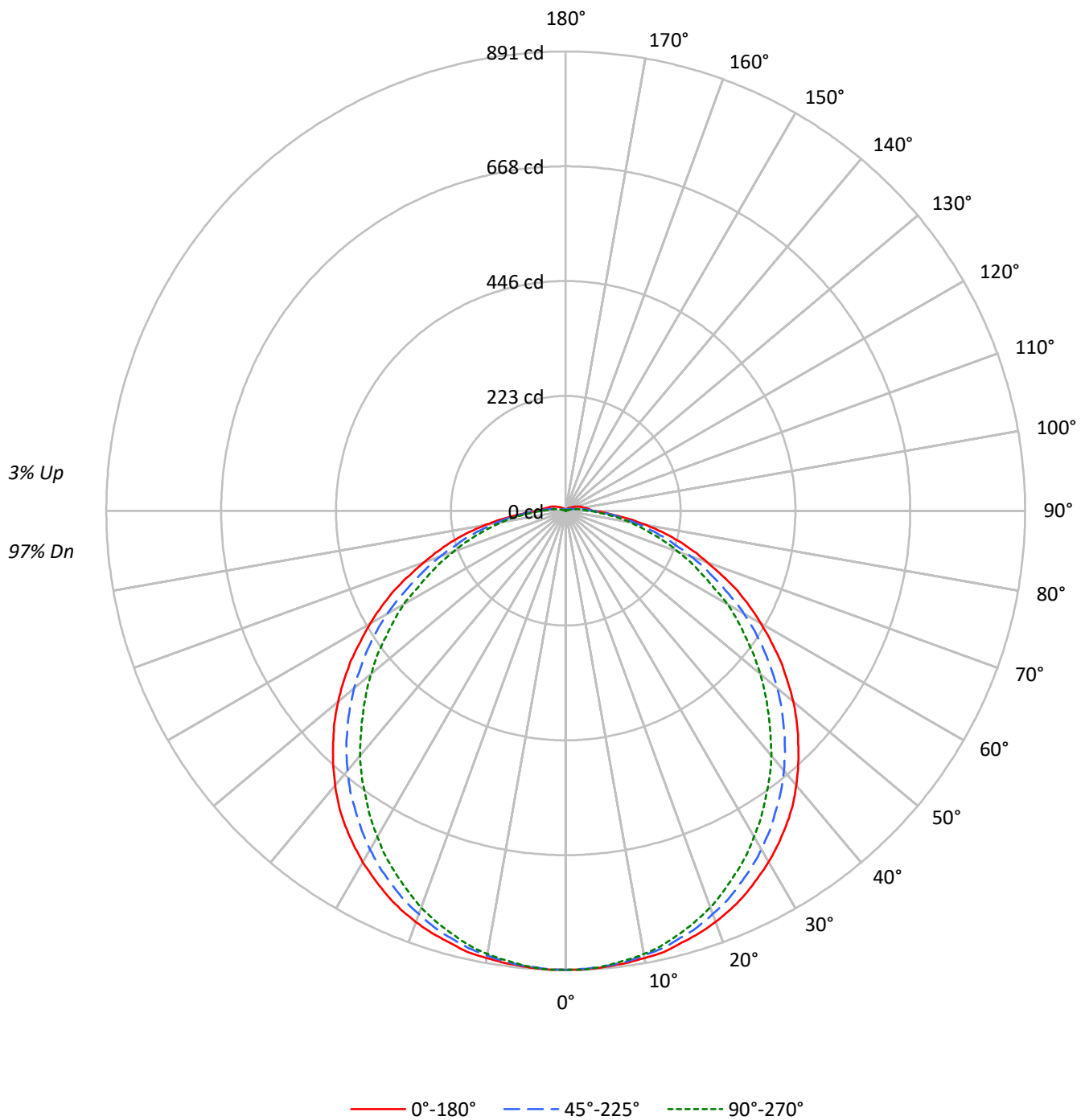
Input Watts (W): 20.6
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	2397	2397	2397
5°	2382	2371	2378
10°	2374	2345	2352
15°	2365	2318	2318
20°	2360	2287	2278
25°	2350	2250	2223
30°	2334	2208	2166
35°	2314	2156	2101
40°	2284	2103	2037
45°	2241	2039	1952
50°	2193	1966	1876
55°	2133	1880	1783
60°	2057	1786	1702
65°	1985	1648	1577
70°	1869	1536	1482
75°	1793	1409	1377
80°	1656	1287	1303
85°	1489	1168	1233

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2241 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.3	3.1
10°-20°	242.6	8.9
20°-30°	368.6	13.5
30°-40°	445.0	16.3
40°-50°	461.5	16.9
50°-60°	418.4	15.4
60°-70°	324.7	11.9
70°-80°	209.1	7.7
80°-90°	98.7	3.6
90°-100°	38.3	1.4
100°-110°	16.9	0.6
110°-120°	8.3	0.3
120°-130°	4.2	0.2
130°-140°	1.8	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°	695.5	25.5
0°-40°	1140.5	41.9
0°-60°	2020.4	74.2
0°-90°	2652.9	97.4
90°-120°	63.5	2.3
90°-150°	70.0	2.6
90°-180°	70.0	2.6
0°-180°	2723.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	891	891	891	891	891	
5°	888	888	887	886	887	85
15°	868	865	858	853	850	245
25°	822	816	799	784	778	379
35°	746	735	710	688	677	466
45°	638	627	599	569	556	492
55°	509	497	468	439	425	454
65°	367	351	324	303	292	362
75°	226	211	195	182	174	238
85°	94	94	89	83	78	90
90°	52	55	52	47	43	30
95°	43	36	34	31	28	34
105°	30	23	12	8	7	31
115°	18	15	8	1	0	18
125°	11	8	4	0	0	10
135°	5	4	1	0	0	4
145°	3	1	0	0	0	2
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°	890.8	890.8	890.8	890.8	890.8
2.5°	890.8	889.5	889.5	889.5	890.8
5°	888.2	888.2	886.8	885.5	886.8
7.5°	885.5	884.1	882.8	881.4	880.1
10°	881.4	880.1	876.0	873.4	873.4
12.5°	877.4	873.4	869.3	865.3	863.9
15°	868.0	865.3	858.5	853.2	850.5
17.5°	859.9	855.9	847.8	839.7	835.7
20°	849.1	843.7	833.0	823.6	819.5
22.5°	837.0	830.3	818.2	804.7	799.3
25°	822.2	815.5	799.3	784.5	777.8
27.5°	804.7	798.0	780.5	761.7	756.3
30°	787.2	779.2	759.0	738.8	730.7
32.5°	767.0	757.6	736.1	713.2	705.1
35°	745.5	734.7	710.5	687.6	676.9
37.5°	722.6	711.9	686.3	660.7	650.0
40°	695.7	685.0	658.0	629.8	620.4
42.5°	667.5	656.7	629.8	600.2	588.1
45°	637.9	627.1	598.8	569.2	555.8
47.5°	608.3	597.5	567.9	538.3	524.8
50°	576.0	565.2	535.6	504.6	492.5
52.5°	542.3	531.5	501.9	472.3	460.2
55°	508.7	496.6	468.3	438.7	425.2
57.5°	472.3	461.6	434.7	406.4	394.3
60°	437.3	425.2	399.7	372.8	362.0
62.5°	402.4	388.9	362.0	335.1	324.3
65°	367.4	351.2	324.3	302.8	292.0
67.5°	328.3	313.5	292.0	270.5	262.4
70°	292.0	279.9	258.4	240.9	231.5
72.5°	259.7	244.9	224.7	211.3	203.2
75°	226.1	211.3	195.1	181.7	173.6
77.5°	191.1	179.0	165.5	156.1	148.0
80°	157.4	148.0	138.6	129.2	123.8
82.5°	123.8	118.4	113.0	106.3	100.9
85°	94.2	94.2	88.8	83.4	78.0
87.5°	70.0	71.3	68.6	63.2	59.2
90°	52.5	55.2	52.5	47.1	43.1
92.5°	47.1	44.4	41.7	39.0	35.0
95°	43.1	36.3	33.6	31.0	28.3
97.5°	39.0	31.0	26.9	24.2	21.5
100°	35.0	26.9	20.2	17.5	16.1
102.5°	32.3	25.6	16.1	12.1	12.1
105°	29.6	22.9	12.1	8.1	6.7
107.5°	25.6	20.2	10.8	5.4	4.0
110°	22.9	18.8	9.4	2.7	1.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	20.2	16.1	9.4	2.7	0.0
115°	17.5	14.8	8.1	1.3	0.0
117.5°	16.1	12.1	6.7	1.3	0.0
120°	13.5	10.8	5.4	1.3	0.0
122.5°	12.1	9.4	5.4	1.3	0.0
125°	10.8	8.1	4.0	0.0	0.0
127.5°	9.4	6.7	4.0	0.0	0.0
130°	8.1	6.7	2.7	0.0	0.0
132.5°	6.7	5.4	2.7	0.0	0.0
135°	5.4	4.0	1.3	0.0	0.0
137.5°	4.0	4.0	1.3	0.0	0.0
140°	4.0	2.7	1.3	0.0	0.0
142.5°	2.7	2.7	0.0	0.0	0.0
145°	2.7	1.3	0.0	0.0	0.0
147.5°	1.3	1.3	0.0	0.0	0.0
150°	1.3	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	1.3	1.3
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	1.3
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	1.3	1.3	1.3
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	14.54	16.15	14.95	16.52	16.89	13.59	15.19	13.99	15.56	15.94
	3H	16.43	17.89	16.85	18.27	18.69	15.32	16.78	15.74	17.16	17.59
	4H	17.21	18.59	17.65	18.99	19.43	16.02	17.40	16.46	17.80	18.24
	6H	17.86	19.14	18.31	19.56	20.01	16.61	17.89	17.06	18.31	18.76
	8H	18.11	19.33	18.57	19.77	20.23	16.85	18.07	17.31	18.51	18.97
	12H	18.31	19.49	18.78	19.92	20.41	17.05	18.23	17.52	18.66	19.15
4H	2H	15.04	16.41	15.48	16.81	17.25	14.28	15.65	14.72	16.05	16.49
	3H	17.16	18.32	17.61	18.77	19.23	16.24	17.40	16.69	17.85	18.31
	4H	18.08	19.14	18.55	19.60	20.10	17.06	18.12	17.53	18.58	19.08
	6H	18.88	19.81	19.37	20.30	20.81	17.79	18.72	18.28	19.21	19.72
	8H	19.20	20.07	19.70	20.56	21.08	18.09	18.97	18.59	19.46	19.98
	12H	19.47	20.26	19.99	20.78	21.31	18.36	19.15	18.88	19.67	20.20
8H	4H	18.35	19.22	18.85	19.71	20.24	17.46	18.33	17.96	18.82	19.34
	6H	19.29	20.03	19.82	20.56	21.09	18.33	19.07	18.86	19.60	20.13
	8H	19.70	20.36	20.25	20.91	21.46	18.73	19.39	19.28	19.94	20.48
	12H	20.10	20.68	20.64	21.22	21.83	19.11	19.70	19.65	20.23	20.85
12H	4H	18.38	19.17	18.90	19.69	20.22	17.52	18.31	18.04	18.83	19.36
	6H	19.35	20.02	19.90	20.56	21.11	18.44	19.10	18.98	19.65	20.19
	8H	19.83	20.42	20.38	20.95	21.57	18.91	19.50	19.45	20.03	20.64