

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: P571987

Luminaire Tested: 22ID-50-L850-DBR

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P571987
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2109-397-3)
Test Lab: INNOVATION CENTER
Issue Date: 10/5/2021
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 22ID-50-L850-DBR
Description: 5000 LUMEN, 2X2 INDEPTH TROFFER WITH 2IN REGRESSED DOUBLE BARRELL LENS AND 5000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5343.0 lumens
Efficiency: N/A
Efficacy: 130.0 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.21 / 1.35
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

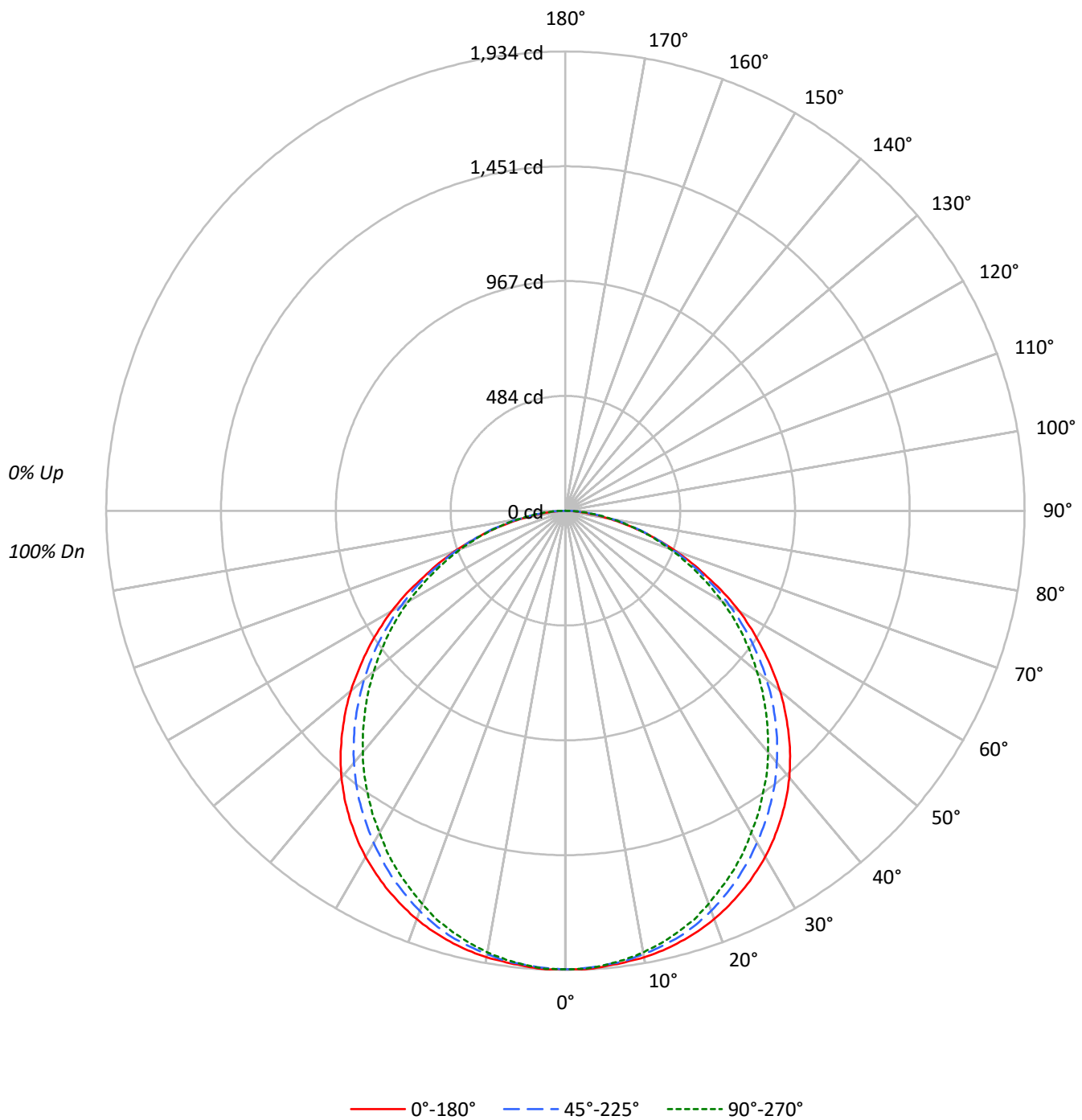
Input Watts (W): 41.1
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	109	104	100	96	106	102	98	95	98	94	92	94	91	89	90	88	86
2	99	91	84	78	96	89	83	78	85	80	76	82	78	74	79	76	72
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	51	46
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	47	41	36
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	39	33	29
10	53	40	32	27	52	39	32	27	38	31	27	38	31	27	37	31	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5196	5196	5196
5°	5202	5187	5187
10°	5219	5183	5161
15°	5232	5174	5115
20°	5243	5137	5047
25°	5241	5084	4967
30°	5230	5018	4862
35°	5201	4950	4768
40°	5154	4867	4664
45°	5063	4762	4541
50°	4941	4632	4411
55°	4758	4486	4276
60°	4551	4296	4097
65°	4194	4059	3875
70°	3855	3793	3669
75°	3397	3506	3397
80°	2775	3062	3062
85°	1707	2439	2439

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5063 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.7	3.4
10°-20°	523.7	9.8
20°-30°	790.3	14.8
30°-40°	945.6	17.7
40°-50°	968.4	18.1
50°-60°	856.1	16.0
60°-70°	632.4	11.8
70°-80°	353.4	6.6
80°-90°	90.3	1.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1496.7	28.0
0°-40°	2442.3	45.7
0°-60°	4266.8	79.9
0°-90°	5343.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5343.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1931	1931	1931	1931	1931	
5°	1926	1923	1920	1918	1920	183
15°	1878	1870	1857	1841	1836	531
25°	1765	1749	1712	1683	1673	813
35°	1583	1560	1507	1465	1452	990
45°	1330	1304	1251	1206	1193	1025
55°	1014	996	956	922	912	906
65°	659	659	638	616	608	657
75°	327	340	337	332	327	348
85°	55	71	79	82	79	75
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1930.9	1930.9	1930.9	1930.9	1930.9
2.5°	1933.6	1928.3	1928.3	1928.3	1930.9
5°	1925.7	1923.0	1920.4	1917.8	1920.4
7.5°	1917.8	1915.1	1912.5	1904.6	1907.2
10°	1909.9	1904.6	1896.7	1888.8	1888.8
12.5°	1896.7	1888.8	1878.2	1867.7	1865.1
15°	1878.2	1870.3	1857.2	1841.4	1836.1
17.5°	1857.2	1846.6	1828.2	1809.8	1804.5
20°	1830.8	1820.3	1793.9	1770.2	1762.3
22.5°	1799.2	1786.0	1754.4	1728.1	1717.6
25°	1765.0	1749.2	1712.3	1683.3	1672.8
27.5°	1725.5	1707.0	1664.9	1633.3	1622.7
30°	1683.3	1662.2	1614.8	1580.6	1564.8
32.5°	1635.9	1612.2	1562.1	1522.6	1512.1
35°	1583.2	1559.5	1506.8	1464.7	1451.5
37.5°	1527.9	1501.5	1448.9	1404.1	1393.5
40°	1467.3	1441.0	1385.6	1338.2	1327.7
42.5°	1401.4	1372.5	1319.8	1275.0	1261.8
45°	1330.3	1304.0	1251.3	1206.5	1193.3
47.5°	1256.6	1232.8	1180.2	1138.0	1124.8
50°	1180.2	1156.5	1106.4	1064.3	1053.7
52.5°	1095.9	1077.4	1032.6	990.5	982.6
55°	1014.2	995.8	956.2	922.0	911.5
57.5°	929.9	911.5	877.2	843.0	837.7
60°	845.6	829.8	798.2	771.8	761.3
62.5°	753.4	748.1	721.8	692.8	684.9
65°	658.6	658.6	637.5	616.4	608.5
67.5°	576.9	574.3	558.5	545.3	537.4
70°	490.0	495.2	482.1	468.9	466.3
72.5°	408.3	413.6	408.3	400.4	395.1
75°	326.7	339.8	337.2	331.9	326.7
77.5°	250.3	266.1	266.1	263.4	260.8
80°	179.1	194.9	197.6	197.6	197.6
82.5°	113.3	129.1	137.0	137.0	137.0
85°	55.3	71.1	79.0	81.7	79.0
87.5°	18.4	26.3	29.0	31.6	31.6
90°	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	17.59	19.22	17.96	19.53	19.85	17.02	18.65	17.38	18.96	19.27
	3H	19.26	20.73	19.64	21.06	21.42	18.76	20.23	19.14	20.56	20.92
	4H	19.85	21.24	20.25	21.58	21.96	19.42	20.80	19.82	21.15	21.53
	6H	20.24	21.52	20.65	21.89	22.28	19.90	21.18	20.31	21.55	21.94
	8H	20.34	21.56	20.76	21.95	22.35	20.05	21.28	20.48	21.67	22.07
	12H	20.38	21.55	20.81	21.93	22.36	20.15	21.32	20.58	21.70	22.13
4H	2H	18.14	19.53	18.54	19.87	20.25	17.69	19.07	18.08	19.42	19.79
	3H	20.04	21.20	20.45	21.60	22.00	19.64	20.80	20.05	21.20	21.60
	4H	20.77	21.82	21.20	22.23	22.67	20.42	21.47	20.85	21.88	22.32
	6H	21.28	22.20	21.74	22.64	23.10	21.03	21.95	21.48	22.39	22.84
	8H	21.42	22.28	21.88	22.72	23.19	21.23	22.08	21.69	22.53	22.99
	12H	21.49	22.26	21.97	22.74	23.21	21.36	22.13	21.84	22.61	23.08
8H	4H	21.05	21.91	21.51	22.35	22.81	20.74	21.60	21.20	22.04	22.51
	6H	21.68	22.39	22.17	22.88	23.35	21.47	22.18	21.96	22.67	23.14
	8H	21.88	22.52	22.39	23.02	23.51	21.73	22.37	22.24	22.88	23.37
	12H	22.01	22.57	22.51	23.06	23.62	21.94	22.50	22.44	22.99	23.55
12H	4H	21.08	21.85	21.56	22.32	22.79	20.78	21.55	21.26	22.02	22.49
	6H	21.73	22.37	22.24	22.87	23.36	21.52	22.16	22.03	22.67	23.15
	8H	21.98	22.55	22.49	23.04	23.60	21.84	22.41	22.35	22.90	23.46