

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: P572006

Luminaire Tested: 22ID-60-L830-DBD

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P572006
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-60-L830-DBD
Description: 6000 LUMEN, 2X2 INDEPTH TROFFER WITH 2IN DROPPED DOUBLE BARRELL LENS AND 3000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5959.0 lumens
Efficiency: N/A
Efficacy: 117.1 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

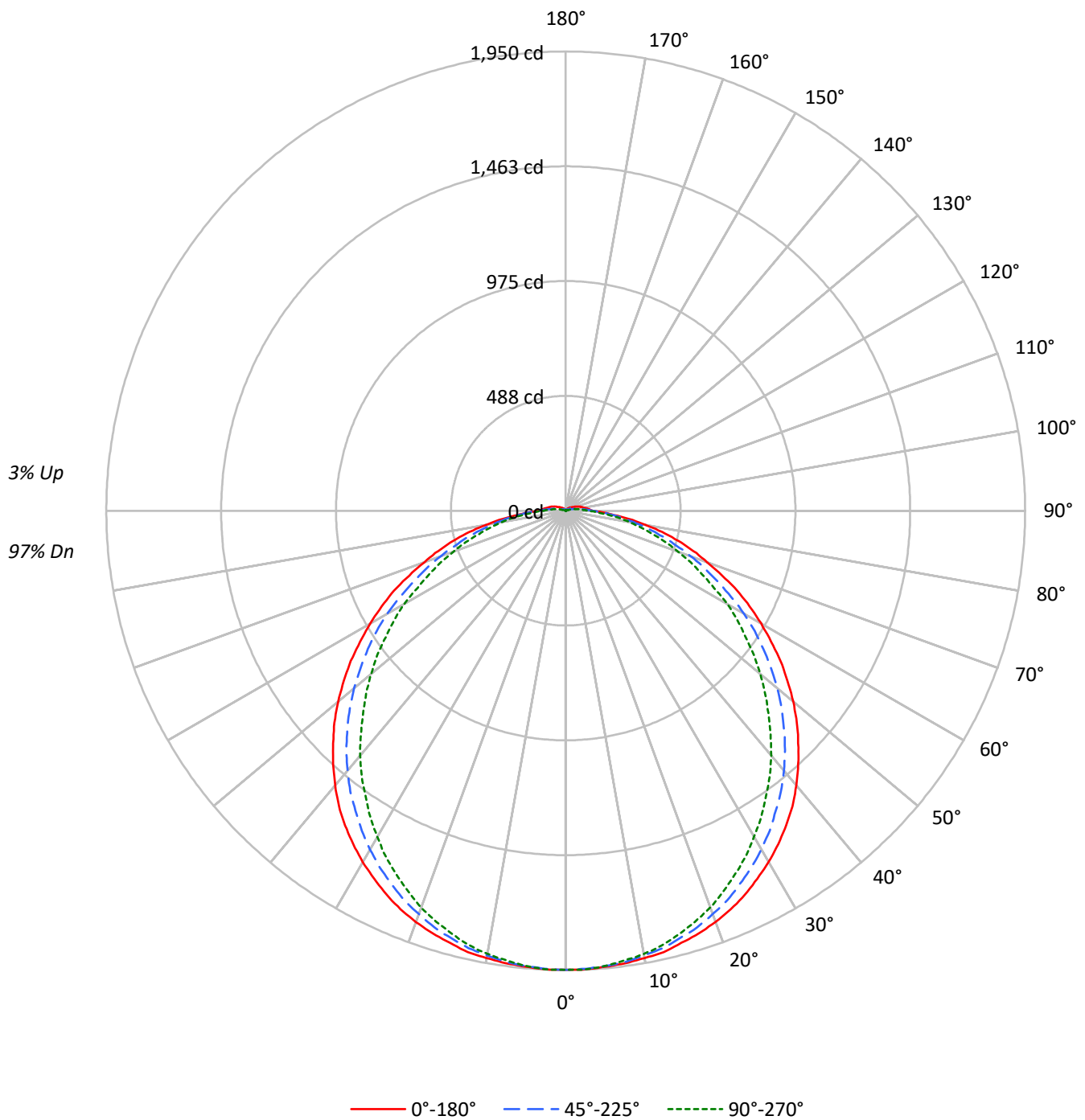
Input Watts (W): 50.9
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	5246	5246	5246
5°	5212	5189	5204
10°	5194	5132	5147
15°	5176	5074	5072
20°	5165	5005	4985
25°	5143	4923	4865
30°	5107	4832	4741
35°	5064	4719	4598
40°	4999	4603	4457
45°	4904	4461	4272
50°	4800	4302	4104
55°	4667	4115	3902
60°	4501	3909	3726
65°	4343	3607	3452
70°	4091	3360	3243
75°	3923	3083	3013
80°	3626	2817	2851
85°	3259	2557	2701

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4904 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.6	3.1
10°-20°	530.8	8.9
20°-30°	806.6	13.5
30°-40°	973.9	16.3
40°-50°	1010.0	16.9
50°-60°	915.6	15.4
60°-70°	710.5	11.9
70°-80°	457.5	7.7
80°-90°	216.1	3.6
90°-100°	83.9	1.4
100°-110°	37.0	0.6
110°-120°	18.1	0.3
120°-130°	9.1	0.2
130°-140°	3.9	0.1
140°-150°	1.1	0.0
150°-160°	0.0	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1522.1	25.5
0°-40°	2495.9	41.9
0°-60°	4421.5	74.2
0°-90°	5805.7	97.4
90°-120°	139.0	2.3
90°-150°	153.1	2.6
90°-180°	153.0	2.6
0°-180°	5959.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1950	1950	1950	1950	1950	
5°	1944	1944	1941	1938	1941	185
15°	1900	1894	1879	1867	1861	537
25°	1799	1785	1749	1717	1702	829
35°	1632	1608	1555	1505	1481	1021
45°	1396	1372	1310	1246	1216	1077
55°	1113	1087	1025	960	931	994
65°	804	769	710	663	639	792
75°	495	462	427	398	380	521
85°	206	206	194	183	171	198
90°	115	121	115	103	94	67
95°	94	80	74	68	62	73
105°	65	50	26	18	15	68
115°	38	32	18	3	0	39
125°	24	18	9	0	0	21
135°	12	9	3	0	0	10
145°	6	3	0	0	0	3
155°	0	0	0	0	0	0
165°	0	0	0	3	3	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°	1949.5	1949.5	1949.5	1949.5	1949.5
2.5°	1949.5	1946.6	1946.6	1946.6	1949.5
5°	1943.6	1943.6	1940.7	1937.7	1940.7
7.5°	1937.7	1934.8	1931.9	1928.9	1926.0
10°	1928.9	1926.0	1917.1	1911.2	1911.2
12.5°	1920.1	1911.2	1902.4	1893.6	1890.6
15°	1899.5	1893.6	1878.8	1867.1	1861.2
17.5°	1881.8	1873.0	1855.3	1837.6	1828.8
20°	1858.2	1846.5	1822.9	1802.3	1793.4
22.5°	1831.7	1817.0	1790.5	1761.0	1749.3
25°	1799.3	1784.6	1749.3	1716.9	1702.2
27.5°	1761.0	1746.3	1708.0	1666.8	1655.0
30°	1722.8	1705.1	1660.9	1616.7	1599.1
32.5°	1678.6	1658.0	1610.9	1560.8	1543.1
35°	1631.5	1607.9	1554.9	1504.8	1481.3
37.5°	1581.4	1557.9	1501.9	1445.9	1422.4
40°	1522.5	1499.0	1440.1	1378.2	1357.6
42.5°	1460.7	1437.1	1378.2	1313.4	1286.9
45°	1395.9	1372.3	1310.5	1245.7	1216.2
47.5°	1331.1	1307.5	1242.7	1178.0	1148.5
50°	1260.4	1236.9	1172.1	1104.3	1077.8
52.5°	1186.8	1163.2	1098.4	1033.7	1007.2
55°	1113.2	1086.7	1024.8	960.0	930.6
57.5°	1033.7	1010.1	951.2	889.4	862.9
60°	957.1	930.6	874.6	815.7	792.2
62.5°	880.5	851.1	792.2	733.3	709.7
65°	804.0	768.6	709.7	662.6	639.0
67.5°	718.6	686.2	639.0	591.9	574.3
70°	639.0	612.5	565.4	527.1	506.5
72.5°	568.4	536.0	491.8	462.3	444.7
75°	494.7	462.3	427.0	397.6	379.9
77.5°	418.2	391.7	362.2	341.6	323.9
80°	344.6	323.9	303.3	282.7	270.9
82.5°	270.9	259.2	247.4	232.6	220.9
85°	206.1	206.1	194.4	182.6	170.8
87.5°	153.1	156.1	150.2	138.4	129.6
90°	114.9	120.7	114.9	103.1	94.2
92.5°	103.1	97.2	91.3	85.4	76.6
95°	94.2	79.5	73.6	67.7	61.8
97.5°	85.4	67.7	58.9	53.0	47.1
100°	76.6	58.9	44.2	38.3	35.3
102.5°	70.7	56.0	35.3	26.5	26.5
105°	64.8	50.1	26.5	17.7	14.7
107.5°	56.0	44.2	23.6	11.8	8.8
110°	50.1	41.2	20.6	5.9	2.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	44.2	35.3	20.6	5.9	0.0
115°	38.3	32.4	17.7	2.9	0.0
117.5°	35.3	26.5	14.7	2.9	0.0
120°	29.4	23.6	11.8	2.9	0.0
122.5°	26.5	20.6	11.8	2.9	0.0
125°	23.6	17.7	8.8	0.0	0.0
127.5°	20.6	14.7	8.8	0.0	0.0
130°	17.7	14.7	5.9	0.0	0.0
132.5°	14.7	11.8	5.9	0.0	0.0
135°	11.8	8.8	2.9	0.0	0.0
137.5°	8.8	8.8	2.9	0.0	0.0
140°	8.8	5.9	2.9	0.0	0.0
142.5°	5.9	5.9	0.0	0.0	0.0
145°	5.9	2.9	0.0	0.0	0.0
147.5°	2.9	2.9	0.0	0.0	0.0
150°	2.9	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	2.9	2.9
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	2.9
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	2.9	2.9	2.9
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	17.26	18.87	17.67	19.24	19.62	16.31	17.91	16.71	18.28	18.66
	3H	19.15	20.61	19.57	20.99	21.41	18.05	19.50	18.46	19.88	20.31
	4H	19.93	21.31	20.37	21.71	22.15	18.74	20.12	19.18	20.52	20.96
	6H	20.58	21.86	21.03	22.28	22.73	19.33	20.61	19.78	21.03	21.48
	8H	20.83	22.05	21.29	22.49	22.95	19.57	20.79	20.03	21.23	21.69
	12H	21.03	22.21	21.50	22.64	23.13	19.77	20.95	20.24	21.38	21.87
4H	2H	17.76	19.13	18.20	19.53	19.97	17.00	18.38	17.44	18.78	19.21
	3H	19.88	21.04	20.33	21.49	21.95	18.96	20.12	19.41	20.57	21.03
	4H	20.80	21.86	21.27	22.32	22.82	19.78	20.84	20.26	21.30	21.80
	6H	21.60	22.53	22.10	23.02	23.53	20.51	21.44	21.01	21.93	22.44
	8H	21.92	22.79	22.42	23.28	23.81	20.81	21.69	21.31	22.18	22.70
	12H	22.20	22.99	22.72	23.51	24.03	21.08	21.87	21.60	22.39	22.92
8H	4H	21.07	21.94	21.57	22.43	22.96	20.18	21.05	20.68	21.54	22.06
	6H	22.01	22.75	22.54	23.28	23.81	21.05	21.79	21.58	22.32	22.85
	8H	22.42	23.09	22.97	23.63	24.18	21.45	22.11	22.00	22.66	23.20
	12H	22.82	23.41	23.36	23.94	24.55	21.83	22.42	22.37	22.95	23.57
12H	4H	21.10	21.89	21.62	22.41	22.94	20.24	21.03	20.76	21.55	22.08
	6H	22.07	22.74	22.62	23.28	23.83	21.16	21.82	21.70	22.37	22.91
	8H	22.55	23.14	23.10	23.67	24.29	21.63	22.22	22.17	22.75	23.37