

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: P572019

Luminaire Tested: 22ID-60-L850-DBR

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P572019
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-60-L850-DBR
Description: 6000 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: 6445.0 lumens
Efficiency: N/A
Efficacy: 126.6 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

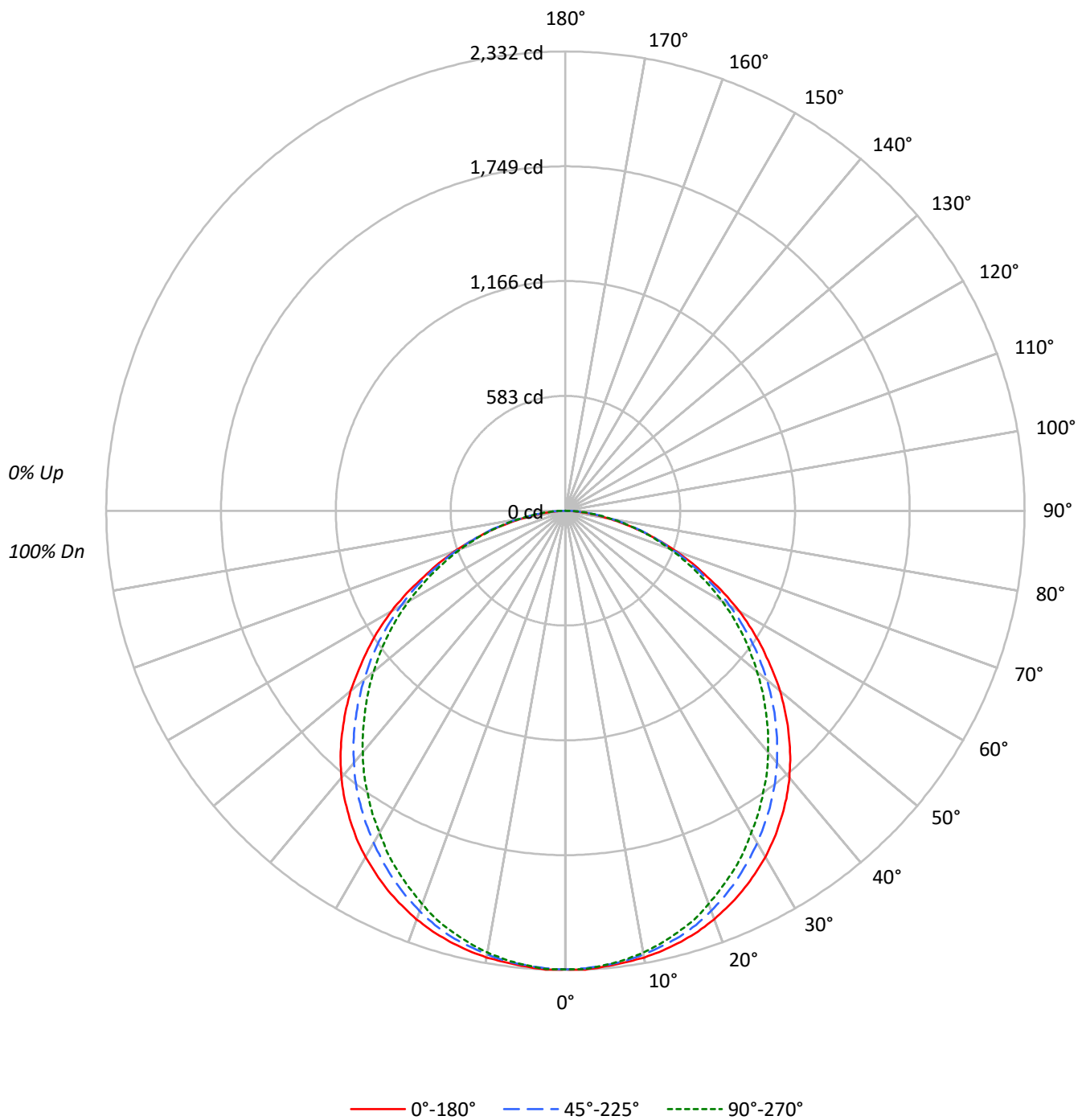
Input Watts (W): 50.9
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	6268	6268	6268
5°	6274	6257	6257
10°	6295	6252	6225
15°	6312	6241	6170
20°	6324	6197	6088
25°	6321	6133	5991
30°	6309	6053	5865
35°	6274	5971	5752
40°	6217	5871	5626
45°	6107	5744	5478
50°	5960	5587	5321
55°	5740	5412	5158
60°	5490	5182	4942
65°	5058	4897	4674
70°	4650	4575	4425
75°	4096	4229	4096
80°	3349	3693	3693
85°	2059	2942	2942

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6107 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.3	3.4
10°-20°	631.7	9.8
20°-30°	953.3	14.8
30°-40°	1140.7	17.7
40°-50°	1168.1	18.1
50°-60°	1032.7	16.0
60°-70°	762.9	11.8
70°-80°	426.3	6.6
80°-90°	108.9	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°	1805.4	28.0
0°-40°	2946.1	45.7
0°-60°	5146.9	79.9
0°-90°	6445.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6445.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2329	2329	2329	2329	2329	
5°	2323	2320	2316	2313	2316	221
15°	2266	2256	2240	2221	2215	640
25°	2129	2110	2065	2030	2018	981
35°	1910	1881	1818	1767	1751	1195
45°	1605	1573	1509	1455	1440	1237
55°	1223	1201	1154	1112	1100	1093
65°	794	794	769	744	734	793
75°	394	410	407	400	394	420
85°	67	86	95	98	95	91
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2329.2	2329.2	2329.2	2329.2	2329.2
2.5°	2332.4	2326.0	2326.0	2326.0	2329.2
5°	2322.8	2319.7	2316.5	2313.3	2316.5
7.5°	2313.3	2310.1	2306.9	2297.4	2300.6
10°	2303.8	2297.4	2287.9	2278.3	2278.3
12.5°	2287.9	2278.3	2265.6	2252.9	2249.7
15°	2265.6	2256.1	2240.2	2221.2	2214.8
17.5°	2240.2	2227.5	2205.3	2183.0	2176.7
20°	2208.4	2195.7	2164.0	2135.4	2125.8
22.5°	2170.3	2154.4	2116.3	2084.5	2071.8
25°	2129.0	2109.9	2065.4	2030.5	2017.8
27.5°	2081.3	2059.1	2008.3	1970.1	1957.4
30°	2030.5	2005.1	1947.9	1906.6	1887.5
32.5°	1973.3	1944.7	1884.3	1836.7	1823.9
35°	1909.7	1881.1	1817.6	1766.8	1750.9
37.5°	1843.0	1811.2	1747.7	1693.7	1681.0
40°	1769.9	1738.2	1671.4	1614.2	1601.5
42.5°	1690.5	1655.5	1592.0	1538.0	1522.1
45°	1604.7	1572.9	1509.4	1455.3	1439.5
47.5°	1515.7	1487.1	1423.6	1372.7	1356.8
50°	1423.6	1395.0	1334.6	1283.8	1271.0
52.5°	1321.9	1299.6	1245.6	1194.8	1185.2
55°	1223.4	1201.1	1153.5	1112.2	1099.5
57.5°	1121.7	1099.5	1058.1	1016.8	1010.5
60°	1020.0	1000.9	962.8	931.0	918.3
62.5°	908.8	902.4	870.7	835.7	826.2
65°	794.4	794.4	769.0	743.6	734.0
67.5°	695.9	692.7	673.7	657.8	648.2
70°	591.0	597.4	581.5	565.6	562.4
72.5°	492.5	498.9	492.5	483.0	476.6
75°	394.0	409.9	406.7	400.4	394.0
77.5°	301.9	320.9	320.9	317.8	314.6
80°	216.1	235.1	238.3	238.3	238.3
82.5°	136.6	155.7	165.2	165.2	165.2
85°	66.7	85.8	95.3	98.5	95.3
87.5°	22.2	31.8	35.0	38.1	38.1
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	18.24	19.87	18.61	20.19	20.50	17.67	19.30	18.03	19.61	19.93
	3H	19.92	21.39	20.29	21.71	22.07	19.41	20.88	19.79	21.21	21.57
	4H	20.50	21.89	20.90	22.24	22.61	20.07	21.45	20.47	21.80	22.18
	6H	20.89	22.17	21.30	22.54	22.93	20.55	21.84	20.96	22.20	22.59
	8H	20.99	22.21	21.41	22.60	23.00	20.71	21.93	21.13	22.32	22.72
	12H	21.03	22.20	21.46	22.58	23.01	20.80	21.97	21.23	22.36	22.78
4H	2H	18.79	20.18	19.19	20.53	20.90	18.34	19.72	18.74	20.07	20.45
	3H	20.70	21.86	21.11	22.25	22.65	20.29	21.45	20.70	21.85	22.25
	4H	21.42	22.47	21.85	22.88	23.32	21.07	22.12	21.51	22.54	22.97
	6H	21.94	22.85	22.39	23.29	23.75	21.68	22.60	22.14	23.04	23.49
	8H	22.07	22.93	22.53	23.37	23.84	21.88	22.74	22.34	23.18	23.64
	12H	22.15	22.92	22.63	23.39	23.86	22.01	22.78	22.49	23.26	23.73
8H	4H	21.70	22.56	22.16	23.00	23.47	21.40	22.25	21.86	22.69	23.16
	6H	22.33	23.04	22.82	23.53	24.01	22.12	22.83	22.61	23.32	23.79
	8H	22.53	23.17	23.04	23.68	24.16	22.39	23.02	22.90	23.53	24.02
	12H	22.66	23.22	23.16	23.71	24.27	22.59	23.15	23.10	23.64	24.20
12H	4H	21.73	22.50	22.21	22.97	23.44	21.43	22.20	21.91	22.67	23.14
	6H	22.38	23.02	22.89	23.52	24.01	22.17	22.81	22.68	23.32	23.80
	8H	22.63	23.20	23.14	23.69	24.25	22.49	23.06	23.00	23.55	24.11