

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: P571983

Luminaire Tested: 22ID-50-L840-DBR

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P571983
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-L840-DBR
Description: 5000 LUMEN, 2X2 INDEPTH TROFFER WITH 2IN REGRESSED DOUBLE BARRELL LENS AND 4000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5186.0 lumens
Efficiency: N/A
Efficacy: 126.2 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

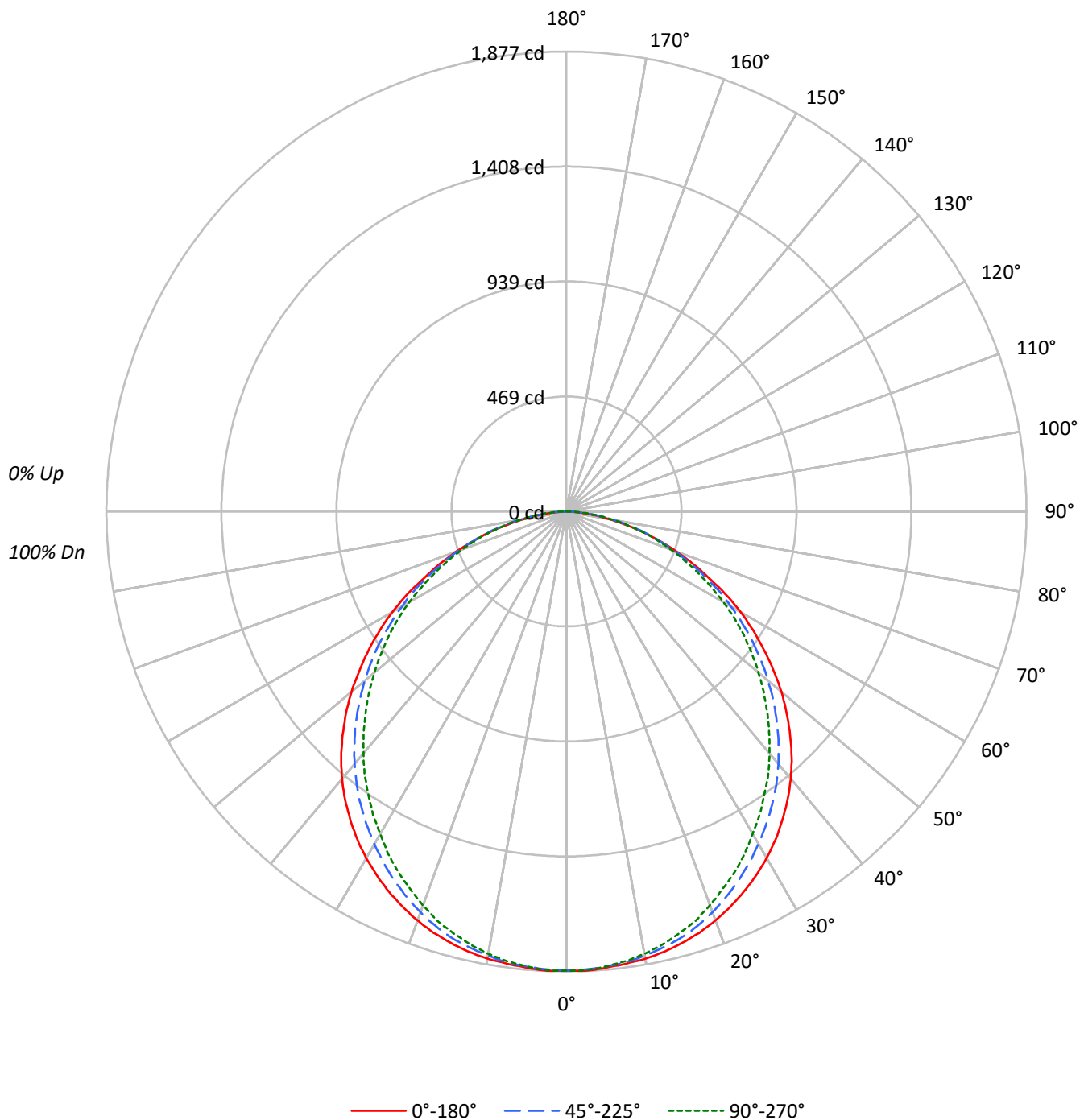
Input Watts (W): 41.1
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	5043	5043	5043
5°	5049	5035	5035
10°	5065	5031	5009
15°	5079	5022	4965
20°	5089	4986	4899
25°	5086	4935	4821
30°	5077	4870	4719
35°	5048	4804	4628
40°	5003	4724	4527
45°	4914	4622	4408
50°	4796	4496	4282
55°	4618	4354	4151
60°	4418	4169	3977
65°	4070	3940	3761
70°	3742	3681	3561
75°	3297	3403	3297
80°	2695	2972	2972
85°	1658	2368	2368

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4914 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.3	3.4
10°-20°	508.3	9.8
20°-30°	767.1	14.8
30°-40°	917.8	17.7
40°-50°	939.9	18.1
50°-60°	831.0	16.0
60°-70°	613.9	11.8
70°-80°	343.0	6.6
80°-90°	87.7	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°	1452.7	28.0
0°-40°	2370.6	45.7
0°-60°	4141.4	79.9
0°-90°	5186.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5186.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1874	1874	1874	1874	1874	
5°	1869	1866	1864	1861	1864	178
15°	1823	1815	1803	1787	1782	515
25°	1713	1698	1662	1634	1624	790
35°	1537	1514	1462	1422	1409	961
45°	1291	1266	1214	1171	1158	995
55°	984	966	928	895	885	880
65°	639	639	619	598	591	638
75°	317	330	327	322	317	338
85°	54	69	77	79	77	73
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1874.2	1874.2	1874.2	1874.2	1874.2
2.5°	1876.7	1871.6	1871.6	1871.6	1874.2
5°	1869.1	1866.5	1864.0	1861.4	1864.0
7.5°	1861.4	1858.9	1856.3	1848.6	1851.2
10°	1853.7	1848.6	1841.0	1833.3	1833.3
12.5°	1841.0	1833.3	1823.1	1812.8	1810.3
15°	1823.1	1815.4	1802.6	1787.3	1782.1
17.5°	1802.6	1792.4	1774.5	1756.6	1751.5
20°	1777.0	1766.8	1741.2	1718.2	1710.6
22.5°	1746.3	1733.6	1702.9	1677.3	1667.1
25°	1713.1	1697.8	1662.0	1633.8	1623.6
27.5°	1674.8	1656.9	1615.9	1585.3	1575.0
30°	1633.8	1613.4	1567.4	1534.1	1518.8
32.5°	1587.8	1564.8	1516.2	1477.9	1467.6
35°	1536.7	1513.7	1462.5	1421.6	1408.8
37.5°	1483.0	1457.4	1406.3	1362.8	1352.6
40°	1424.2	1398.6	1344.9	1298.9	1288.7
42.5°	1360.3	1332.1	1281.0	1237.5	1224.7
45°	1291.2	1265.7	1214.5	1171.1	1158.3
47.5°	1219.6	1196.6	1145.5	1104.6	1091.8
50°	1145.5	1122.5	1073.9	1033.0	1022.8
52.5°	1063.7	1045.8	1002.3	961.4	953.7
55°	984.4	966.5	928.1	894.9	884.7
57.5°	902.6	884.7	851.4	818.2	813.1
60°	820.8	805.4	774.7	749.2	738.9
62.5°	731.3	726.2	700.6	672.5	664.8
65°	639.2	639.2	618.8	598.3	590.6
67.5°	560.0	557.4	542.1	529.3	521.6
70°	475.6	480.7	467.9	455.1	452.6
72.5°	396.3	401.4	396.3	388.6	383.5
75°	317.1	329.8	327.3	322.2	317.1
77.5°	242.9	258.2	258.2	255.7	253.1
80°	173.9	189.2	191.8	191.8	191.8
82.5°	109.9	125.3	133.0	133.0	133.0
85°	53.7	69.0	76.7	79.3	76.7
87.5°	17.9	25.6	28.1	30.7	30.7
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	17.49	19.12	17.85	19.43	19.74	16.91	18.54	17.28	18.86	19.17
	3H	19.16	20.63	19.54	20.96	21.32	18.66	20.13	19.03	20.45	20.81
	4H	19.75	21.13	20.15	21.48	21.86	19.31	20.70	19.71	21.05	21.42
	6H	20.13	21.42	20.55	21.78	22.17	19.80	21.08	20.21	21.45	21.84
	8H	20.23	21.46	20.66	21.85	22.24	19.95	21.18	20.38	21.57	21.96
	12H	20.27	21.45	20.70	21.83	22.26	20.05	21.22	20.47	21.60	22.03
4H	2H	18.04	19.42	18.44	19.77	20.15	17.58	18.97	17.98	19.31	19.69
	3H	19.94	21.10	20.35	21.50	21.90	19.54	20.70	19.95	21.09	21.49
	4H	20.67	21.71	21.10	22.13	22.56	20.32	21.37	20.75	21.78	22.22
	6H	21.18	22.10	21.63	22.54	22.99	20.93	21.84	21.38	22.28	22.74
	8H	21.32	22.17	21.78	22.62	23.08	21.12	21.98	21.58	22.42	22.89
	12H	21.39	22.16	21.87	22.64	23.10	21.26	22.03	21.74	22.50	22.97
8H	4H	20.95	21.80	21.41	22.25	22.71	20.64	21.50	21.10	21.94	22.40
	6H	21.58	22.29	22.07	22.78	23.25	21.36	22.08	21.86	22.56	23.04
	8H	21.78	22.41	22.29	22.92	23.41	21.63	22.27	22.14	22.78	23.26
	12H	21.90	22.47	22.41	22.96	23.52	21.83	22.40	22.34	22.89	23.45
12H	4H	20.97	21.74	21.45	22.22	22.69	20.67	21.44	21.15	21.92	22.39
	6H	21.62	22.26	22.13	22.77	23.25	21.42	22.06	21.93	22.56	23.05
	8H	21.88	22.44	22.38	22.93	23.49	21.74	22.30	22.25	22.79	23.36