

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: P571999

Luminaire Tested: 22ID-55-L840-DBR

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P571999
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-55-L840-DBR
Description: 5500 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: 5708.0 lumens
Efficiency: N/A
Efficacy: 124.4 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

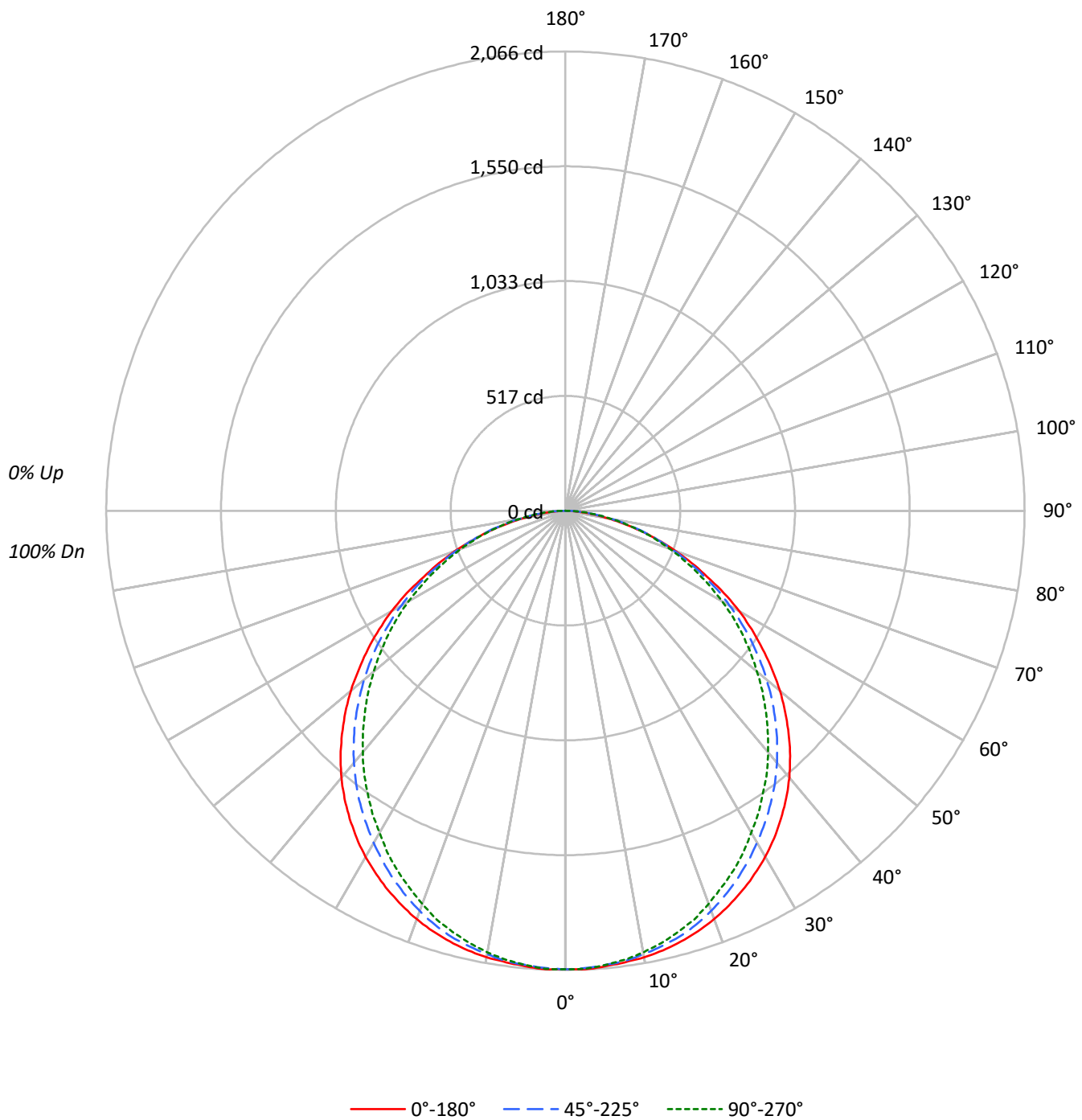
Input Watts (W): 45.9
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	5551	5551	5551
5°	5557	5542	5542
10°	5575	5537	5514
15°	5590	5527	5465
20°	5601	5488	5391
25°	5598	5431	5306
30°	5588	5360	5194
35°	5556	5288	5094
40°	5506	5200	4983
45°	5409	5087	4852
50°	5278	4948	4713
55°	5083	4793	4568
60°	4862	4589	4377
65°	4480	4336	4139
70°	4118	4052	3919
75°	3629	3745	3629
80°	2966	3271	3271
85°	1825	2606	2606

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5409 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.1	3.4
10°-20°	559.5	9.8
20°-30°	844.3	14.8
30°-40°	1010.2	17.7
40°-50°	1034.5	18.1
50°-60°	914.6	16.0
60°-70°	675.6	11.8
70°-80°	377.6	6.6
80°-90°	96.5	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°	1598.9	28.0
0°-40°	2609.2	45.7
0°-60°	4558.3	79.9
0°-90°	5708.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5708.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2063	2063	2063	2063	2063	
5°	2057	2054	2052	2049	2052	196
15°	2007	1998	1984	1967	1962	567
25°	1886	1869	1829	1798	1787	869
35°	1691	1666	1610	1565	1551	1058
45°	1421	1393	1337	1289	1275	1095
55°	1084	1064	1022	985	974	968
65°	704	704	681	658	650	702
75°	349	363	360	355	349	372
85°	59	76	84	87	84	80
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2062.8	2062.8	2062.8	2062.8	2062.8
2.5°	2065.7	2060.0	2060.0	2060.0	2062.8
5°	2057.2	2054.4	2051.6	2048.8	2051.6
7.5°	2048.8	2046.0	2043.1	2034.7	2037.5
10°	2040.3	2034.7	2026.3	2017.8	2017.8
12.5°	2026.3	2017.8	2006.6	1995.3	1992.5
15°	2006.6	1998.1	1984.0	1967.2	1961.5
17.5°	1984.0	1972.8	1953.1	1933.4	1927.8
20°	1955.9	1944.6	1916.5	1891.2	1882.7
22.5°	1922.1	1908.1	1874.3	1846.1	1834.9
25°	1885.5	1868.7	1829.3	1798.3	1787.0
27.5°	1843.3	1823.6	1778.6	1744.8	1733.6
30°	1798.3	1775.8	1725.1	1688.5	1671.7
32.5°	1747.6	1722.3	1668.8	1626.6	1615.4
35°	1691.4	1666.0	1609.7	1564.7	1550.6
37.5°	1632.3	1604.1	1547.8	1500.0	1488.7
40°	1567.5	1539.4	1480.3	1429.6	1418.4
42.5°	1497.2	1466.2	1409.9	1362.1	1348.0
45°	1421.2	1393.1	1336.8	1288.9	1274.9
47.5°	1342.4	1317.1	1260.8	1215.8	1201.7
50°	1260.8	1235.5	1182.0	1137.0	1125.7
52.5°	1170.7	1151.0	1103.2	1058.2	1049.7
55°	1083.5	1063.8	1021.6	985.0	973.7
57.5°	993.4	973.7	937.1	900.6	894.9
60°	903.4	886.5	852.7	824.6	813.3
62.5°	804.9	799.2	771.1	740.1	731.7
65°	703.6	703.6	681.0	658.5	650.1
67.5°	616.3	613.5	596.6	582.5	574.1
70°	523.4	529.1	515.0	500.9	498.1
72.5°	436.2	441.8	436.2	427.8	422.1
75°	349.0	363.0	360.2	354.6	349.0
77.5°	267.4	284.2	284.2	281.4	278.6
80°	191.4	208.3	211.1	211.1	211.1
82.5°	121.0	137.9	146.3	146.3	146.3
85°	59.1	76.0	84.4	87.2	84.4
87.5°	19.7	28.1	31.0	33.8	33.8
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	17.82	19.45	18.19	19.76	20.08	17.25	18.88	17.61	19.19	19.50
	3H	19.49	20.96	19.87	21.29	21.65	18.99	20.46	19.37	20.79	21.15
	4H	20.08	21.47	20.48	21.81	22.19	19.65	21.03	20.04	21.38	21.75
	6H	20.47	21.75	20.88	22.12	22.51	20.13	21.41	20.54	21.78	22.17
	8H	20.56	21.79	20.99	22.18	22.58	20.28	21.51	20.71	21.90	22.30
	12H	20.61	21.78	21.04	22.16	22.59	20.38	21.55	20.81	21.93	22.36
4H	2H	18.37	19.76	18.77	20.10	20.48	17.92	19.30	18.31	19.65	20.02
	3H	20.27	21.43	20.68	21.83	22.23	19.87	21.03	20.28	21.43	21.83
	4H	21.00	22.05	21.43	22.46	22.90	20.65	21.70	21.08	22.11	22.55
	6H	21.51	22.43	21.97	22.87	23.33	21.26	22.18	21.71	22.62	23.07
	8H	21.65	22.51	22.11	22.95	23.41	21.46	22.31	21.92	22.76	23.22
	12H	21.72	22.49	22.20	22.97	23.44	21.59	22.36	22.07	22.84	23.31
8H	4H	21.28	22.14	21.74	22.58	23.04	20.97	21.83	21.43	22.27	22.74
	6H	21.91	22.62	22.40	23.11	23.58	21.70	22.41	22.19	22.90	23.37
	8H	22.11	22.75	22.62	23.25	23.74	21.96	22.60	22.47	23.11	23.59
	12H	22.24	22.80	22.74	23.29	23.85	22.17	22.73	22.67	23.22	23.78
12H	4H	21.31	22.08	21.79	22.55	23.02	21.01	21.77	21.48	22.25	22.72
	6H	21.96	22.60	22.46	23.10	23.59	21.75	22.39	22.26	22.90	23.38
	8H	22.21	22.77	22.72	23.27	23.83	22.07	22.64	22.58	23.13	23.69