

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: P572043

Luminaire Tested: 22ID-70-L835-DBR

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P572043
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-70-L835-DBR
Description: 7000 LUMEN, 2X2 INDEPTH TROFFER WITH 2IN REGRESSED DOUBLE BARRELL LENS AND 3500K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7078.0 lumens
Efficiency: N/A
Efficacy: 115.8 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

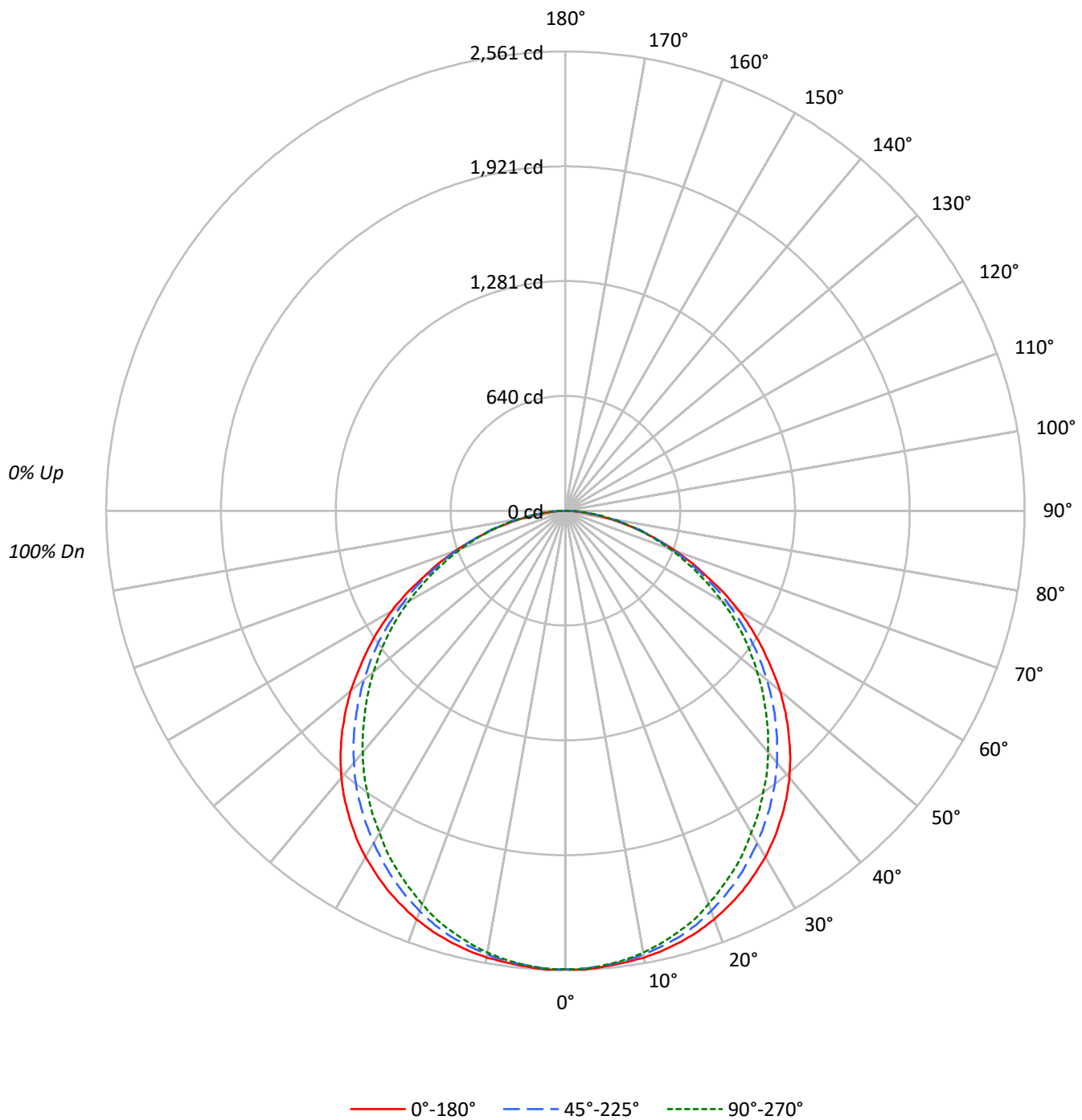
Input Watts (W): 61.1
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	6884	6884	6884
5°	6891	6872	6872
10°	6913	6866	6837
15°	6932	6854	6776
20°	6945	6806	6686
25°	6942	6735	6580
30°	6929	6647	6441
35°	6890	6557	6317
40°	6828	6448	6178
45°	6707	6308	6016
50°	6545	6136	5844
55°	6303	5943	5665
60°	6029	5691	5428
65°	5555	5377	5133
70°	5107	5024	4860
75°	4499	4644	4499
80°	3677	4055	4055
85°	2263	3233	3233

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6707 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.0	3.4
10°-20°	693.8	9.8
20°-30°	1047.0	14.8
30°-40°	1252.7	17.7
40°-50°	1282.8	18.1
50°-60°	1134.1	16.0
60°-70°	837.8	11.8
70°-80°	468.2	6.6
80°-90°	119.7	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°	1982.7	28.0
0°-40°	3235.4	45.7
0°-60°	5652.4	79.9
0°-90°	7078.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7078.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2558	2558	2558	2558	2558	
5°	2551	2548	2544	2540	2544	243
15°	2488	2478	2460	2439	2432	703
25°	2338	2317	2268	2230	2216	1078
35°	2097	2066	1996	1940	1923	1312
45°	1762	1727	1658	1598	1581	1358
55°	1344	1319	1267	1221	1207	1200
65°	872	872	844	817	806	870
75°	433	450	447	440	433	461
85°	73	94	105	108	105	100
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2558.0	2558.0	2558.0	2558.0	2558.0
2.5°	2561.4	2554.5	2554.5	2554.5	2558.0
5°	2551.0	2547.5	2544.0	2540.5	2544.0
7.5°	2540.5	2537.0	2533.5	2523.1	2526.5
10°	2530.0	2523.1	2512.6	2502.1	2502.1
12.5°	2512.6	2502.1	2488.2	2474.2	2470.7
15°	2488.2	2477.7	2460.2	2439.3	2432.3
17.5°	2460.2	2446.3	2421.9	2397.4	2390.4
20°	2425.3	2411.4	2376.5	2345.1	2334.6
22.5°	2383.5	2366.0	2324.1	2289.2	2275.3
25°	2338.1	2317.2	2268.3	2229.9	2216.0
27.5°	2285.8	2261.3	2205.5	2163.6	2149.7
30°	2229.9	2202.0	2139.2	2093.8	2072.9
32.5°	2167.1	2135.7	2069.4	2017.0	2003.1
35°	2097.3	2065.9	1996.1	1940.3	1922.8
37.5°	2024.0	1989.1	1919.3	1860.0	1846.1
40°	1943.8	1908.9	1835.6	1772.8	1758.8
42.5°	1856.5	1818.1	1748.3	1689.0	1671.6
45°	1762.3	1727.4	1657.6	1598.3	1580.8
47.5°	1664.6	1633.2	1563.4	1507.6	1490.1
50°	1563.4	1532.0	1465.7	1409.8	1395.9
52.5°	1451.7	1427.3	1368.0	1312.1	1301.7
55°	1343.5	1319.1	1266.8	1221.4	1207.4
57.5°	1231.9	1207.4	1162.1	1116.7	1109.7
60°	1120.2	1099.3	1057.4	1022.5	1008.5
62.5°	998.1	991.1	956.2	917.8	907.3
65°	872.4	872.4	844.5	816.6	806.1
67.5°	764.2	760.8	739.8	722.4	711.9
70°	649.1	656.1	638.6	621.2	617.7
72.5°	540.9	547.9	540.9	530.4	523.5
75°	432.7	450.2	446.7	439.7	432.7
77.5°	331.5	352.5	352.5	349.0	345.5
80°	237.3	258.2	261.7	261.7	261.7
82.5°	150.1	171.0	181.5	181.5	181.5
85°	73.3	94.2	104.7	108.2	104.7
87.5°	24.4	34.9	38.4	41.9	41.9
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	18.57	20.20	18.93	20.51	20.82	17.99	19.62	18.36	19.94	20.25
	3H	20.24	21.71	20.62	22.04	22.40	19.74	21.21	20.11	21.54	21.90
	4H	20.83	22.21	21.23	22.56	22.94	20.39	21.78	20.79	22.13	22.50
	6H	21.21	22.50	21.63	22.86	23.25	20.88	22.16	21.29	22.53	22.92
	8H	21.31	22.54	21.74	22.93	23.33	21.03	22.26	21.46	22.65	23.04
	12H	21.35	22.53	21.78	22.91	23.34	21.13	22.30	21.55	22.68	23.11
4H	2H	19.12	20.50	19.52	20.85	21.23	18.66	20.05	19.06	20.40	20.77
	3H	21.02	22.18	21.43	22.58	22.98	20.62	21.78	21.03	22.17	22.57
	4H	21.75	22.79	22.18	23.21	23.64	21.40	22.45	21.83	22.86	23.30
	6H	22.26	23.18	22.71	23.62	24.07	22.01	22.92	22.46	23.36	23.82
	8H	22.40	23.26	22.86	23.70	24.16	22.20	23.06	22.67	23.50	23.97
	12H	22.47	23.24	22.95	23.72	24.19	22.34	23.11	22.82	23.58	24.05
8H	4H	22.03	22.88	22.49	23.33	23.79	21.72	22.58	22.18	23.02	23.49
	6H	22.66	23.37	23.15	23.86	24.33	22.44	23.16	22.94	23.64	24.12
	8H	22.86	23.50	23.37	24.00	24.49	22.71	23.35	23.22	23.86	24.34
	12H	22.98	23.55	23.49	24.04	24.60	22.91	23.48	23.42	23.97	24.53
12H	4H	22.05	22.82	22.53	23.30	23.77	21.75	22.52	22.23	23.00	23.47
	6H	22.70	23.34	23.21	23.85	24.34	22.50	23.14	23.01	23.64	24.13
	8H	22.96	23.52	23.46	24.01	24.57	22.82	23.38	23.33	23.88	24.44