

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: P572047

Luminaire Tested: 22ID-70-L840-DBR

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P572047
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-L840-DBR
Description: 7000 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: 7299.0 lumens
Efficiency: N/A
Efficacy: 119.5 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

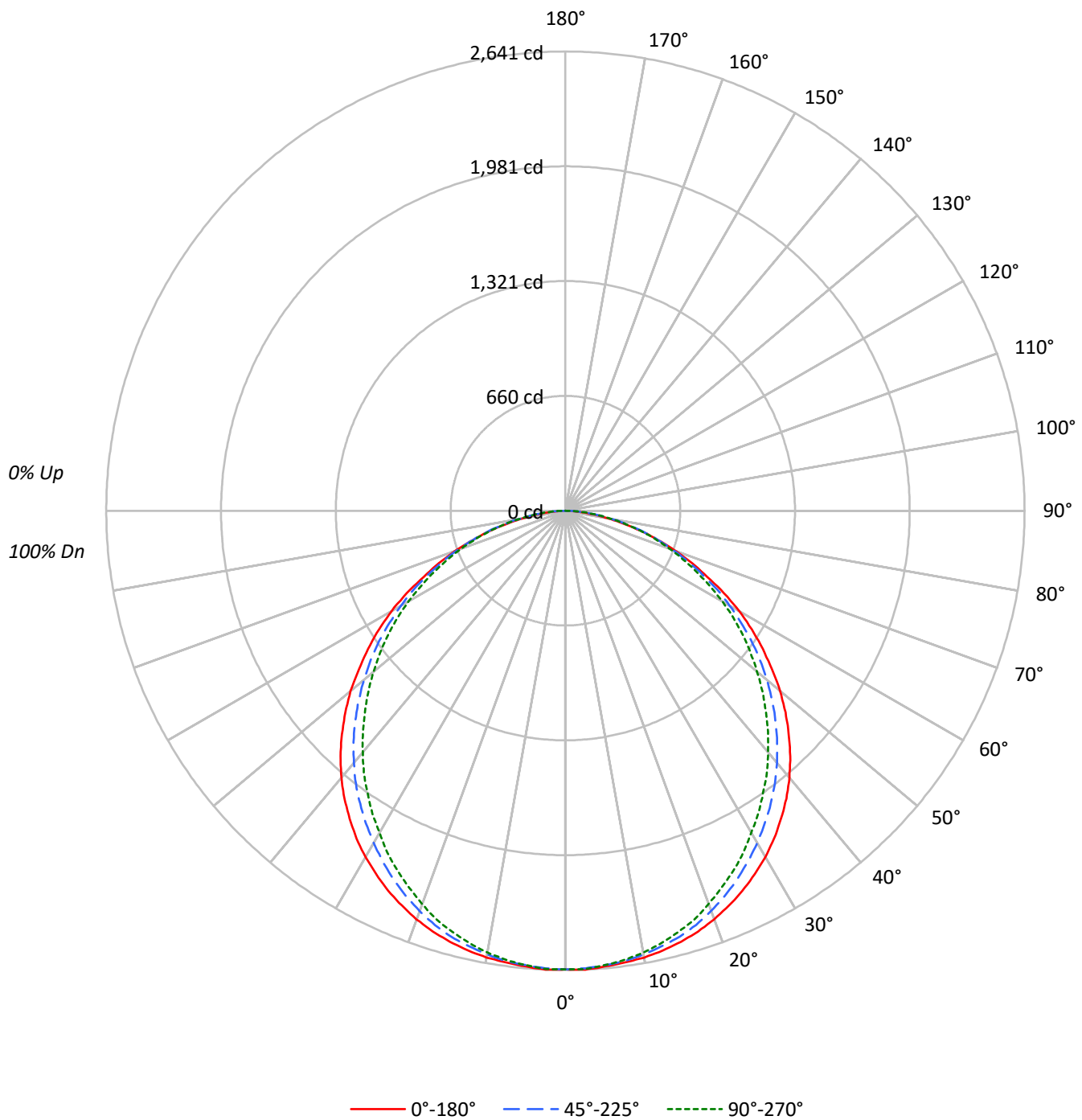
Input Watts (W): 61.1
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	104	100	96	106	102	98	95	98	94	92		94	91	89		90
2	99	91	84	78	96	89	83	78	85	80	76		82	78	74		79
3	90	80	72	65	88	78	71	65	75	69	64		73	67	62		70
4	83	71	62	55	80	69	61	55	67	60	54		65	58	53		62
5	76	63	54	48	74	62	54	47	60	53	47		58	52	46		56
6	70	57	48	42	68	56	48	42	54	47	41		53	46	41		51
7	65	52	43	37	63	51	43	37	49	42	36		48	41	36		47
8	61	47	39	33	59	47	38	33	45	38	33		44	37	32		43
9	57	43	35	30	55	43	35	30	42	34	29		41	34	29		39
10	53	40	32	27	52	39	32	27	38	31	27		38	31	27		37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7098	7098	7098
5°	7106	7086	7086
10°	7129	7080	7050
15°	7148	7068	6988
20°	7162	7018	6894
25°	7159	6945	6785
30°	7145	6855	6642
35°	7105	6762	6514
40°	7041	6649	6371
45°	6916	6505	6204
50°	6749	6327	6026
55°	6500	6129	5841
60°	6217	5868	5597
65°	5729	5545	5293
70°	5267	5182	5012
75°	4639	4789	4639
80°	3792	4183	4183
85°	2334	3335	3335

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6916 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.5	3.4
10°-20°	715.4	9.8
20°-30°	1079.7	14.8
30°-40°	1291.8	17.7
40°-50°	1322.9	18.1
50°-60°	1169.5	16.0
60°-70°	864.0	11.8
70°-80°	482.8	6.6
80°-90°	123.4	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°	2044.6	28.0
0°-40°	3336.4	45.7
0°-60°	5828.9	79.9
0°-90°	7299.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7299.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2638	2638	2638	2638	2638	
5°	2631	2627	2623	2620	2623	250
15°	2566	2555	2537	2516	2508	725
25°	2411	2390	2339	2300	2285	1111
35°	2163	2130	2058	2001	1983	1353
45°	1817	1781	1709	1648	1630	1401
55°	1386	1360	1306	1260	1245	1238
65°	900	900	871	842	831	898
75°	446	464	461	453	446	475
85°	76	97	108	112	108	103
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2637.8	2637.8	2637.8	2637.8	2637.8
2.5°	2641.4	2634.2	2634.2	2634.2	2637.8
5°	2630.6	2627.0	2623.4	2619.8	2623.4
7.5°	2619.8	2616.2	2612.6	2601.8	2605.4
10°	2609.0	2601.8	2591.0	2580.2	2580.2
12.5°	2591.0	2580.2	2565.8	2551.5	2547.9
15°	2565.8	2555.1	2537.1	2515.5	2508.3
17.5°	2537.1	2522.7	2497.5	2472.3	2465.1
20°	2501.1	2486.7	2450.7	2418.3	2407.5
22.5°	2457.9	2439.9	2396.7	2360.7	2346.3
25°	2411.1	2389.5	2339.1	2299.5	2285.2
27.5°	2357.1	2331.9	2274.4	2231.2	2216.8
30°	2299.5	2270.8	2206.0	2159.2	2137.6
32.5°	2234.8	2202.4	2134.0	2080.0	2065.6
35°	2162.8	2130.4	2058.4	2000.9	1982.9
37.5°	2087.2	2051.2	1979.3	1918.1	1903.7
40°	2004.5	1968.5	1892.9	1828.1	1813.7
42.5°	1914.5	1874.9	1802.9	1741.8	1723.8
45°	1817.3	1781.3	1709.4	1648.2	1630.2
47.5°	1716.6	1684.2	1612.2	1554.6	1536.6
50°	1612.2	1579.8	1511.4	1453.9	1439.5
52.5°	1497.0	1471.9	1410.7	1353.1	1342.3
55°	1385.5	1360.3	1306.3	1259.5	1245.1
57.5°	1270.3	1245.1	1198.4	1151.6	1144.4
60°	1155.2	1133.6	1090.4	1054.4	1040.0
62.5°	1029.2	1022.0	986.0	946.4	935.7
65°	899.7	899.7	870.9	842.1	831.3
67.5°	788.1	784.5	762.9	744.9	734.1
70°	669.4	676.5	658.6	640.6	637.0
72.5°	557.8	565.0	557.8	547.0	539.8
75°	446.2	464.2	460.6	453.4	446.2
77.5°	341.9	363.5	363.5	359.9	356.3
80°	244.7	266.3	269.9	269.9	269.9
82.5°	154.7	176.3	187.1	187.1	187.1
85°	75.6	97.2	108.0	111.6	108.0
87.5°	25.2	36.0	39.6	43.2	43.2
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	18.68	20.30	19.04	20.62	20.93	18.10	19.73	18.47	20.04	20.36
	3H	20.35	21.82	20.72	22.14	22.50	19.84	21.32	20.22	21.64	22.00
	4H	20.93	22.32	21.33	22.67	23.04	20.50	21.89	20.90	22.23	22.61
	6H	21.32	22.61	21.73	22.97	23.36	20.99	22.27	21.40	22.63	23.02
	8H	21.42	22.64	21.84	23.03	23.43	21.14	22.36	21.56	22.75	23.15
	12H	21.46	22.64	21.89	23.02	23.45	21.23	22.41	21.66	22.79	23.22
4H	2H	19.23	20.61	19.62	20.96	21.33	18.77	20.15	19.17	20.50	20.88
	3H	21.13	22.29	21.54	22.69	23.08	20.72	21.88	21.13	22.28	22.68
	4H	21.85	22.90	22.28	23.31	23.75	21.51	22.56	21.94	22.97	23.40
	6H	22.37	23.28	22.82	23.72	24.18	22.11	23.03	22.57	23.47	23.93
	8H	22.50	23.36	22.97	23.80	24.27	22.31	23.17	22.77	23.61	24.08
	12H	22.58	23.35	23.06	23.82	24.29	22.45	23.22	22.93	23.69	24.16
8H	4H	22.13	22.99	22.59	23.43	23.90	21.83	22.68	22.29	23.13	23.59
	6H	22.76	23.47	23.26	23.96	24.44	22.55	23.26	23.04	23.75	24.23
	8H	22.96	23.60	23.47	24.11	24.59	22.82	23.46	23.33	23.96	24.45
	12H	23.09	23.66	23.60	24.15	24.71	23.02	23.59	23.53	24.08	24.64
12H	4H	22.16	22.93	22.64	23.41	23.88	21.86	22.63	22.34	23.10	23.57
	6H	22.81	23.45	23.32	23.96	24.44	22.60	23.24	23.11	23.75	24.24
	8H	23.06	23.63	23.57	24.12	24.68	22.93	23.49	23.43	23.98	24.54

END OF REPORT

FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE

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