

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: P571919

Luminaire Tested: 22ID-30-L840-DBR

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P571919
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: 221D-30-L840-DBR
Description: 3000 LUMEN, 2X2 INDEPTH TROFFER WITH 2IN REGRESSED DOUBLE BARRELL LENS AND 4000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

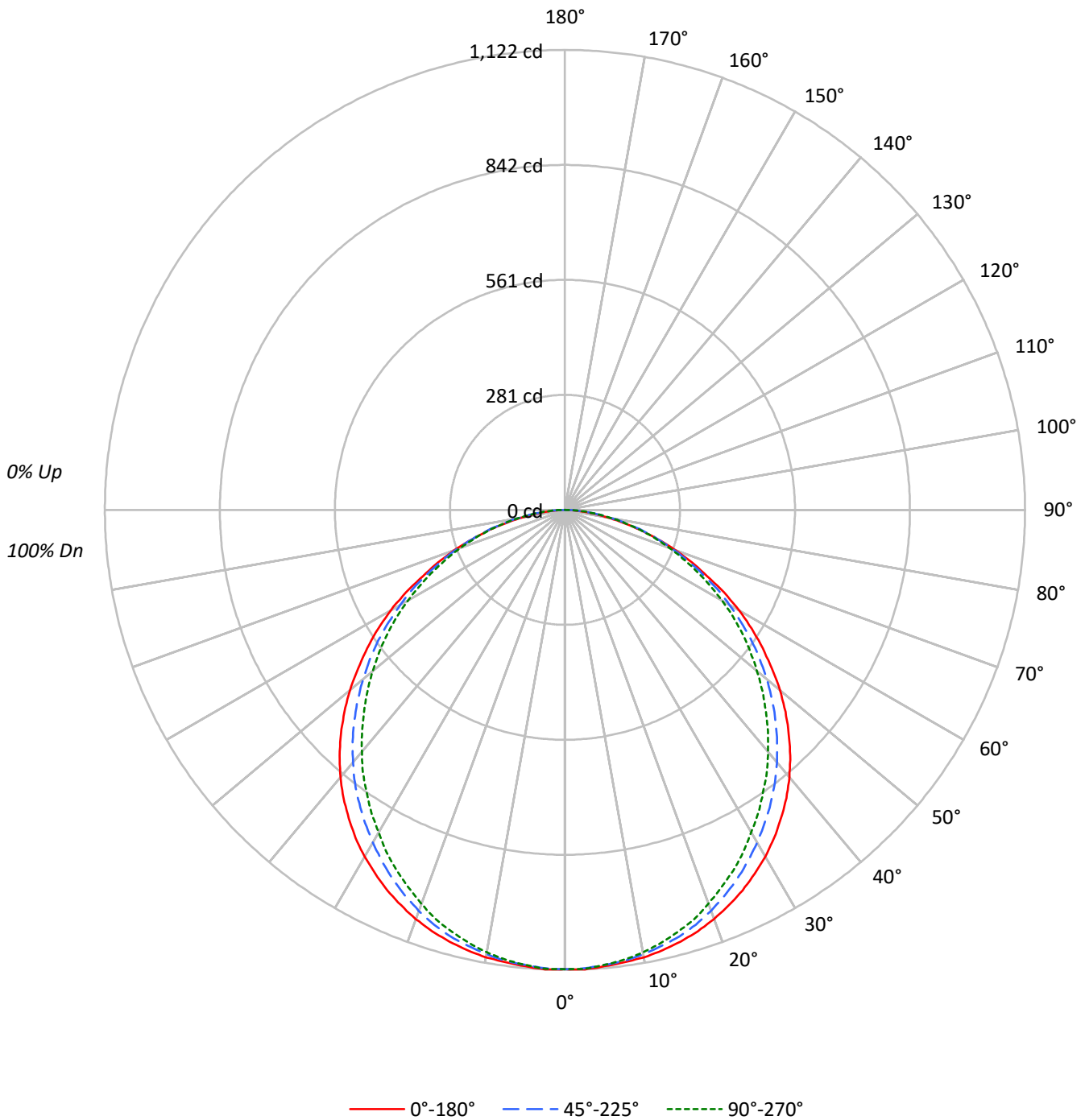
Lumens per Lamp: N/A
Luminaire Lumens: 3101.0 lumens
Efficiency: N/A
Efficacy: 128.1 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.21 / 1.35
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 24.2
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



TEST NUMBER: P571919
CATALOG NUMBER: 22ID-30-L840-DBR

Luminous Intensity Polar Plot





TEST NUMBER: P571919

CATALOG NUMBER: 22ID-30-L840-DBR

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				
1	109	104	100	96	106	102	98	95	98	94	92	94	91	89	90	88	86	84				
2	99	91	84	78	96	89	83	78	85	80	76	82	78	74	79	76	72	70				
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59				
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	51				
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	51	46	44				
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38				
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	47	41	36	34				
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30				
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	39	33	29	27				
10	53	40	32	27	52	39	32	27	38	31	27	38	31	27	37	31	26	25				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3016	3016	3016
5°	3019	3011	3011
10°	3029	3008	2995
15°	3037	3003	2969
20°	3043	2982	2929
25°	3042	2951	2883
30°	3036	2912	2822
35°	3019	2873	2767
40°	2992	2825	2707
45°	2938	2764	2636
50°	2867	2688	2560
55°	2761	2604	2482
60°	2641	2493	2378
65°	2434	2356	2249
70°	2238	2201	2129
75°	1971	2035	1971
80°	1612	1777	1777
85°	991	1417	1417

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2938 cd/sqm



TEST NUMBER: P571919

CATALOG NUMBER: 22ID-30-L840-DBR

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.0	3.4
10°-20°	304.0	9.8
20°-30°	458.7	14.8
30°-40°	548.8	17.7
40°-50°	562.0	18.1
50°-60°	496.9	16.0
60°-70°	367.1	11.8
70°-80°	205.1	6.6
80°-90°	52.4	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°	868.7	28.0
0°-40°	1417.5	45.7
0°-60°	2476.4	79.9
0°-90°	3101.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3101.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1121	1121	1121	1121	1121	
5°	1118	1116	1115	1113	1115	106
15°	1090	1086	1078	1069	1066	308
25°	1024	1015	994	977	971	472
35°	919	905	874	850	842	575
45°	772	757	726	700	693	595
55°	589	578	555	535	529	526
65°	382	382	370	358	353	381
75°	190	197	196	193	190	202
85°	32	41	46	47	46	44
90°	0	0	0	0	0	



TEST NUMBER: P571919

CATALOG NUMBER: 22ID-30-L840-DBR

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1120.7	1120.7	1120.7	1120.7	1120.7
2.5°	1122.2	1119.2	1119.2	1119.2	1120.7
5°	1117.6	1116.1	1114.6	1113.0	1114.6
7.5°	1113.0	1111.5	1110.0	1105.4	1106.9
10°	1108.5	1105.4	1100.8	1096.2	1096.2
12.5°	1100.8	1096.2	1090.1	1084.0	1082.5
15°	1090.1	1085.5	1077.9	1068.7	1065.6
17.5°	1077.9	1071.8	1061.1	1050.4	1047.3
20°	1062.6	1056.5	1041.2	1027.4	1022.8
22.5°	1044.2	1036.6	1018.2	1003.0	996.8
25°	1024.4	1015.2	993.8	977.0	970.9
27.5°	1001.4	990.7	966.3	947.9	941.8
30°	977.0	964.7	937.2	917.3	908.2
32.5°	949.4	935.7	906.6	883.7	877.6
35°	918.9	905.1	874.5	850.1	842.4
37.5°	886.8	871.5	840.9	814.9	808.8
40°	851.6	836.3	804.2	776.7	770.6
42.5°	813.4	796.6	766.0	740.0	732.3
45°	772.1	756.8	726.2	700.2	692.6
47.5°	729.3	715.5	684.9	660.5	652.8
50°	684.9	671.2	642.1	617.7	611.6
52.5°	636.0	625.3	599.3	574.9	570.3
55°	588.6	577.9	555.0	535.1	529.0
57.5°	539.7	529.0	509.1	489.2	486.2
60°	490.8	481.6	463.3	448.0	441.9
62.5°	437.3	434.2	418.9	402.1	397.5
65°	382.2	382.2	370.0	357.8	353.2
67.5°	334.8	333.3	324.1	316.5	311.9
70°	284.4	287.4	279.8	272.1	270.6
72.5°	237.0	240.0	237.0	232.4	229.3
75°	189.6	197.2	195.7	192.6	189.6
77.5°	145.2	154.4	154.4	152.9	151.4
80°	104.0	113.1	114.7	114.7	114.7
82.5°	65.7	74.9	79.5	79.5	79.5
85°	32.1	41.3	45.9	47.4	45.9
87.5°	10.7	15.3	16.8	18.3	18.3
90°	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P571919
 CATALOG NUMBER: 22ID-30-L840-DBR

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	15.70	17.33	16.07	17.64	17.96	15.13	16.76	15.49	17.07	17.38
	3H	17.37	18.84	17.75	19.17	19.53	16.87	18.34	17.25	18.67	19.03
	4H	17.96	19.35	18.36	19.69	20.07	17.53	18.91	17.92	19.26	19.63
	6H	18.35	19.63	18.76	20.00	20.39	18.01	19.29	18.42	19.66	20.05
	8H	18.44	19.67	18.87	20.06	20.46	18.16	19.39	18.59	19.78	20.18
	12H	18.49	19.66	18.92	20.04	20.47	18.26	19.43	18.69	19.81	20.24
4H	2H	16.25	17.64	16.65	17.98	18.36	15.80	17.18	16.19	17.53	17.90
	3H	18.15	19.31	18.56	19.71	20.11	17.75	18.91	18.16	19.31	19.71
	4H	18.88	19.93	19.31	20.34	20.78	18.53	19.58	18.96	19.99	20.43
	6H	19.39	20.31	19.85	20.75	21.21	19.14	20.06	19.59	20.50	20.95
	8H	19.53	20.39	19.99	20.83	21.29	19.34	20.19	19.80	20.64	21.10
	12H	19.60	20.37	20.08	20.85	21.32	19.47	20.24	19.95	20.72	21.19
8H	4H	19.16	20.02	19.62	20.46	20.92	18.85	19.71	19.31	20.15	20.62
	6H	19.79	20.50	20.28	20.99	21.46	19.58	20.29	20.07	20.78	21.25
	8H	19.99	20.63	20.50	21.13	21.62	19.84	20.48	20.35	20.99	21.48
	12H	20.12	20.68	20.62	21.17	21.73	20.05	20.61	20.55	21.10	21.66
12H	4H	19.19	19.96	19.67	20.43	20.90	18.88	19.65	19.36	20.13	20.60
	6H	19.84	20.48	20.34	20.98	21.47	19.63	20.27	20.14	20.78	21.26
	8H	20.09	20.65	20.60	21.15	21.71	19.95	20.52	20.46	21.01	21.57