

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: P1057064

Luminaire Tested: CB3R-085D-830-1D-UNV-STD-W-8

Issue Date: 7/31/2025

Test Information

Test Method: LM-79-2019
Report Number: P1057064
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2312-242-8)
Test Lab: INNOVATION CENTER
Issue Date: 7/31/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: CB3R-085D-830-1D-UNV-STD-W-8
Description: CORELITE BASIC SLOT LED LUMINAIRE
3-INCH APERTURE
DOWNLIGHT 850 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6179.4 lumens
Efficiency: N/A
Efficacy: 119.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.13 / 1.26
Luminous Opening: Rectangular (W 0.24' x L: 8' x H: 0')
CIE Type: Direct

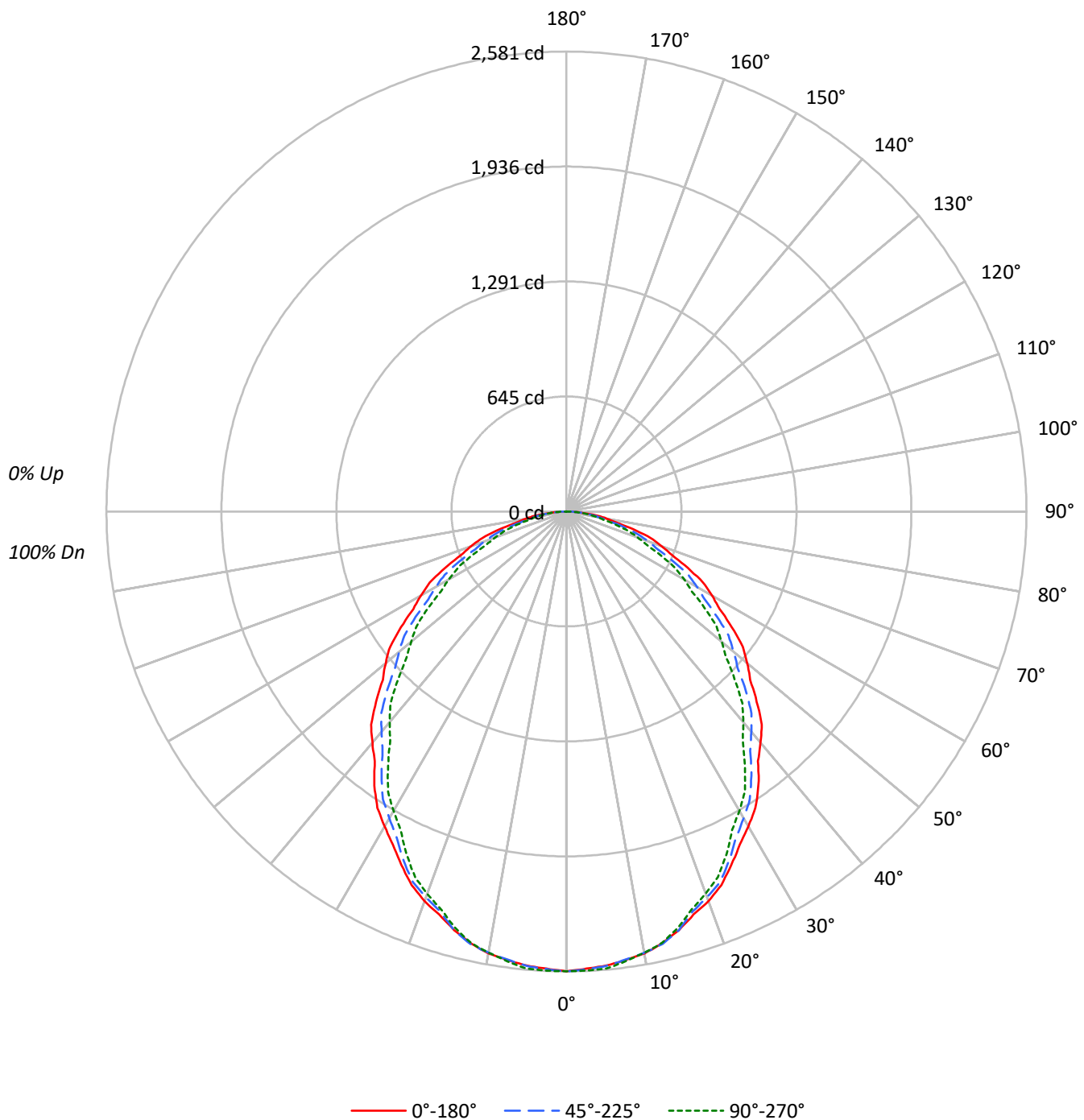
Input Watts (W): 51.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P1057064

CATALOG NUMBER: CB3R-085D-830-1D-UNV-STD-W-8

Luminous Intensity Polar Plot



TEST NUMBER: P1057064

CATALOG NUMBER: CB3R-085D-830-1D-UNV-STD-W-8

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	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74
3	91	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63
4	84	72	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55
5	78	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	48	43	38
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34
9	58	45	37	32	57	45	37	32	43	36	31	42	36	31	41	35	31
10	55	42	34	29	53	41	34	29	40	33	29	39	33	29	38	33	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14602	14602	14602
5°	14533	14543	14627
10°	14469	14448	14448
15°	14247	14247	14161
20°	14016	13873	13751
25°	13663	13491	13251
30°	13328	12981	12670
35°	12977	12496	12052
40°	12509	11914	11399
45°	12085	11395	10692
50°	11648	10777	10003
55°	11174	10180	9347
60°	10661	9562	8608
65°	10061	8859	7828
70°	9369	8036	6974
75°	8494	7051	6210
80°	7405	5913	5493
85°	5712	4998	4998

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 12085 cd/sqm

TEST NUMBER: P1057064

CATALOG NUMBER: CB3R-085D-830-1D-UNV-STD-W-8

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.5	3.9
10°-20°	684.2	11.1
20°-30°	994.0	16.1
30°-40°	1130.1	18.3
40°-50°	1097.1	17.8
50°-60°	926.3	15.0
60°-70°	659.0	10.7
70°-80°	352.1	5.7
80°-90°	93.0	1.5
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°	1921.7	31.1
0°-40°	3051.9	49.4
0°-60°	5075.2	82.1
0°-90°	6179.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6179.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2581	2581	2581	2581	2581	
5°	2559	2591	2561	2558	2576	243
15°	2433	2454	2433	2418	2418	685
25°	2189	2196	2161	2132	2123	1008
35°	1879	1861	1809	1756	1745	1171
45°	1510	1487	1424	1356	1336	1165
55°	1133	1102	1032	966	948	1013
65°	752	725	662	603	585	744
75°	389	367	323	290	284	414
85°	88	81	77	77	77	108
90°	0	0	0	0	0	

TEST NUMBER: P1057064

CATALOG NUMBER: CB3R-085D-830-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2581.1	2581.1	2581.1	2581.1	2581.1
2.5°	2567.9	2593.7	2570.8	2573.9	2579.6
5°	2559.1	2591.3	2560.9	2557.6	2575.6
7.5°	2539.3	2568.7	2537.1	2529.7	2545.9
10°	2518.7	2551.0	2515.1	2506.1	2515.1
12.5°	2482.1	2515.8	2487.2	2472.3	2479.9
15°	2432.6	2454.1	2432.6	2417.9	2417.9
17.5°	2372.1	2394.7	2354.1	2343.8	2339.8
20°	2328.1	2347.8	2304.3	2289.5	2284.1
22.5°	2269.4	2287.7	2251.5	2226.4	2219.6
25°	2188.8	2195.9	2161.3	2131.7	2122.8
27.5°	2107.7	2109.5	2061.9	2026.1	2014.3
30°	2040.3	2042.1	1987.1	1948.4	1939.5
32.5°	1972.8	1967.4	1915.3	1869.3	1863.2
35°	1879.0	1861.0	1809.3	1755.9	1745.1
37.5°	1765.7	1754.9	1693.8	1640.3	1624.2
40°	1693.8	1675.9	1613.2	1559.6	1543.5
42.5°	1622.0	1601.2	1536.9	1477.5	1459.9
45°	1510.5	1487.2	1424.3	1356.1	1336.4
47.5°	1398.3	1372.9	1303.7	1237.6	1215.7
50°	1323.5	1296.6	1224.5	1159.8	1136.5
52.5°	1247.3	1218.9	1146.8	1080.8	1061.8
55°	1132.9	1102.4	1032.1	965.7	947.7
57.5°	1018.5	988.4	918.4	855.6	834.1
60°	942.2	913.6	845.1	782.3	760.8
62.5°	864.5	837.3	770.3	709.0	688.9
65°	751.6	724.7	661.8	602.7	584.8
67.5°	639.8	616.8	554.7	500.5	486.1
70°	566.4	544.9	485.8	436.0	421.6
72.5°	496.0	473.1	416.9	374.5	364.4
75°	388.6	367.1	322.6	289.5	284.1
77.5°	290.4	272.8	234.3	215.5	212.6
80°	227.3	211.2	181.5	168.6	168.6
82.5°	168.6	155.4	136.0	130.5	130.5
85°	88.0	80.8	77.0	77.0	77.0
87.5°	26.4	26.4	24.9	23.5	23.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)