

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: P1057034

Luminaire Tested: CB2-D-085U-030D-830-1D-UNV-STD-W-8

Issue Date: 7/31/2025

Test Information

Test Method: LM-79-2019
Report Number: P1057034
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2312-242-13, G2-2312-242-18)
Test Lab: INNOVATION CENTER
Issue Date: 7/31/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: CB2-D-085U-030D-830-1D-UNV-STD-W-8
Description: CORELITE BASIC SLOT LED LUMINAIRE, DIFFUSER DUST COVER UPLIGHT
2-INCH APERTURE
DOWNLIGHT 300 LUMENS PER FOOT
UPLIGHT 850 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8281.9 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.24
Luminous Opening: Rectangular (W 0.15' x L: 8' x H: 0')
CIE Type: Semi-Indirect

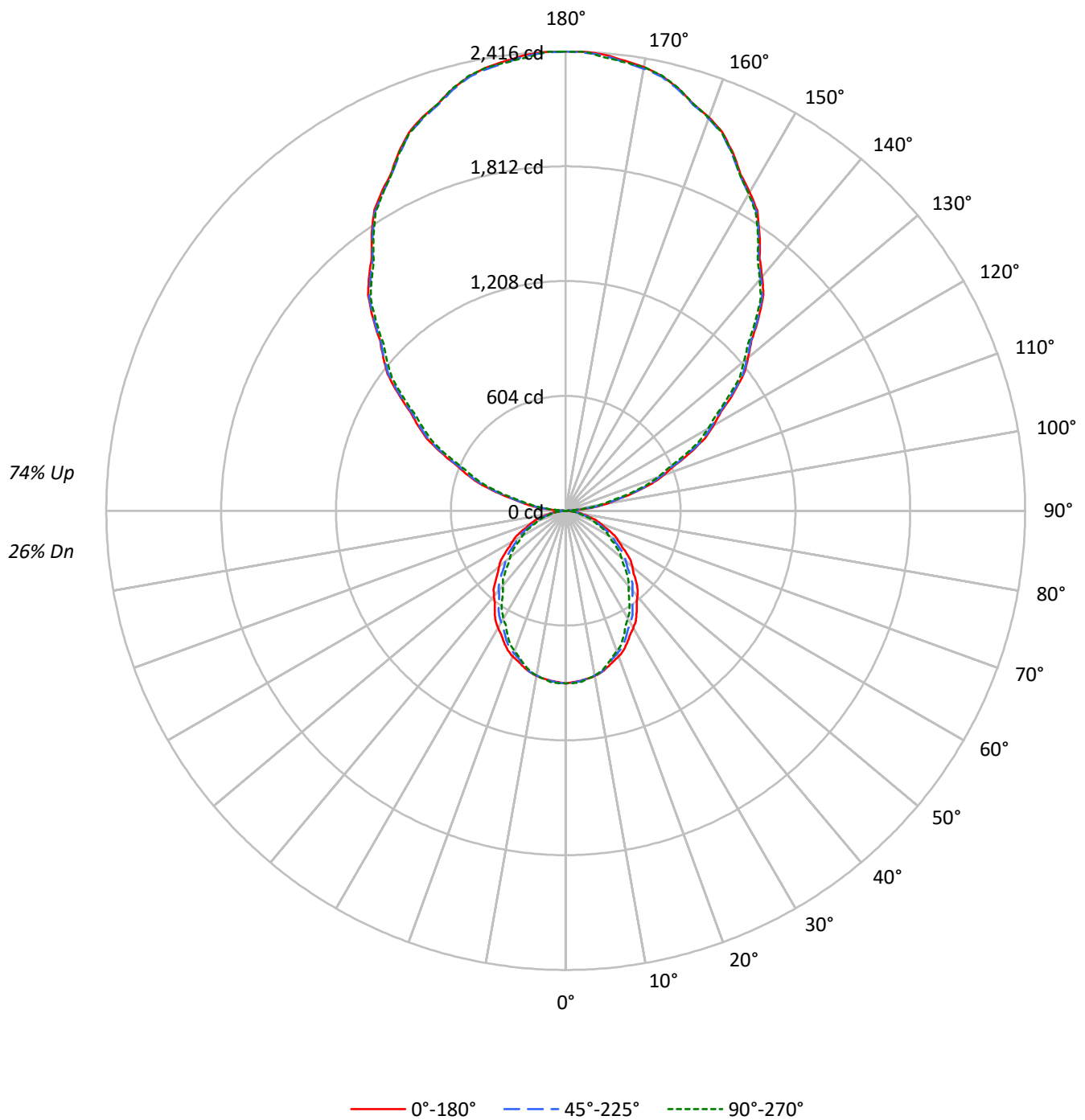
Input Watts (W): 76
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	101	101	101	101	90	90	90	90	70	70	70	51	51	51	34	34	34
1	92	88	85	81	82	79	76	73	61	59	57	45	44	42	30	29	29
2	84	77	71	66	75	69	64	60	54	50	47	39	37	36	26	25	24
3	77	68	61	55	68	61	55	50	47	43	40	35	32	30	23	22	21
4	70	60	52	47	62	54	47	42	42	38	34	31	28	26	21	19	18
5	64	53	46	40	57	48	41	36	38	33	29	28	25	22	19	17	16
6	59	48	40	34	53	43	36	31	34	29	25	25	22	20	17	15	14
7	55	43	35	30	49	39	32	27	30	26	22	23	20	17	16	14	12
8	51	39	31	26	45	35	29	24	28	23	20	21	18	15	14	12	11
9	47	35	28	23	42	32	26	21	25	21	17	19	16	14	13	11	10
10	44	32	25	21	39	29	23	19	23	19	16	18	14	12	12	10	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7915	7915	7915
5°	7848	7860	7915
10°	7803	7785	7778
15°	7680	7629	7567
20°	7559	7391	7288
25°	7356	7148	6947
30°	7152	6837	6579
35°	6918	6518	6208
40°	6669	6218	5855
45°	6419	5905	5511
50°	6194	5601	5177
55°	5917	5284	4860
60°	5600	4981	4546
65°	5263	4647	4231
70°	4891	4270	3827
75°	4448	3863	3466
80°	3977	3385	3139
85°	3058	2778	2298

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6419 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.5	1.0
10°-20°	238.2	2.9
20°-30°	342.6	4.1
30°-40°	385.0	4.6
40°-50°	371.9	4.5
50°-60°	314.3	3.8
60°-70°	225.7	2.7
70°-80°	123.4	1.5
80°-90°	32.9	0.4
90°-100°	93.4	1.1
100°-110°	385.0	4.6
110°-120°	698.9	8.4
120°-130°	951.0	11.5
130°-140°	1097.8	13.3
140°-150°	1106.3	13.4
150°-160°	954.7	11.5
160°-170°	647.1	7.8
170°-180°	228.2	2.8
0°-30°	666.3	8.0
0°-40°	1051.3	12.7
0°-60°	1737.5	21.0
0°-90°	2119.5	25.6
90°-120°	1177.2	14.2
90°-150°	4332.3	52.3
90°-180°	6162.0	74.4
0°-180°	8281.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	909	909	909	909	909	
5°	898	910	899	899	905	85
15°	852	859	846	838	839	240
25°	766	766	744	727	723	352
35°	651	643	613	589	584	406
45°	521	510	480	454	448	403
55°	390	375	348	326	320	348
65°	255	246	226	209	205	253
75°	132	124	115	106	103	141
85°	31	29	28	24	23	36
90°	0	0	2	0	2	4
95°	90	79	75	58	58	105
105°	381	375	366	345	341	404
115°	724	722	709	688	686	714
125°	1076	1087	1065	1042	1044	961
135°	1434	1451	1427	1401	1410	1105
145°	1777	1798	1770	1749	1762	1110
155°	2079	2099	2070	2057	2073	956
165°	2298	2322	2292	2279	2300	647
175°	2407	2433	2401	2386	2392	228
180°	2416	2416	2416	2416	2416	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	908.9	908.9	908.9	908.9	908.9
2.5°	902.7	913.6	905.5	906.7	908.3
5°	897.7	910.0	899.1	899.2	905.4
7.5°	891.3	902.9	889.2	886.7	892.4
10°	882.4	894.0	880.3	875.5	879.6
12.5°	870.7	881.7	868.6	861.1	864.6
15°	851.8	859.3	846.2	837.9	839.3
17.5°	831.2	835.8	817.0	810.0	808.6
20°	815.6	819.7	797.5	787.7	786.4
22.5°	795.6	799.1	775.8	763.8	761.9
25°	765.5	766.2	743.9	727.1	723.0
27.5°	734.0	731.9	707.2	687.3	682.0
30°	711.2	708.5	679.9	658.9	654.2
32.5°	686.7	681.8	653.2	630.5	625.8
35°	650.7	643.2	613.1	589.3	583.9
37.5°	612.3	603.8	574.3	548.4	542.2
40°	586.6	577.1	547.0	521.1	515.0
42.5°	561.0	550.4	519.7	493.8	487.1
45°	521.2	510.3	479.5	454.3	447.5
47.5°	483.4	469.5	439.5	414.5	407.7
50°	457.2	442.2	413.4	388.9	382.1
52.5°	430.5	415.0	387.2	363.8	357.0
55°	389.7	375.4	348.0	326.2	320.1
57.5°	349.3	335.6	310.5	289.8	283.8
60°	321.5	309.9	286.0	266.4	261.0
62.5°	294.8	284.3	261.5	243.6	238.1
65°	255.4	245.9	225.5	209.4	205.3
67.5°	217.1	207.6	191.1	176.7	172.0
70°	192.1	182.5	167.7	154.4	150.3
72.5°	168.1	158.1	146.0	133.8	130.8
75°	132.2	124.1	114.8	105.7	103.0
77.5°	100.5	92.6	85.9	79.5	78.8
80°	79.3	72.5	67.5	63.3	62.6
82.5°	59.3	54.1	50.8	47.7	47.6
85°	30.6	28.6	27.8	24.3	23.0
87.5°	8.9	8.9	8.2	6.7	7.1
90°	0.0	0.0	1.9	0.0	1.9
92.5°	22.6	19.7	18.5	12.1	13.9
95°	90.5	79.4	75.4	58.4	58.4
97.5°	170.8	159.7	153.8	136.4	132.7
100°	228.1	217.0	211.1	192.2	188.5
102.5°	286.9	281.7	271.4	251.0	247.3
105°	380.7	375.2	365.7	344.8	341.1
107.5°	477.2	478.3	464.0	447.0	441.8
110°	546.6	544.7	533.4	516.4	512.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	617.5	614.1	602.8	585.7	582.0
115°	723.8	721.9	708.7	687.9	686.1
117.5°	824.8	830.7	815.0	793.1	792.4
120°	897.2	904.5	885.9	866.9	863.2
122.5°	968.0	976.9	958.2	936.4	937.1
125°	1076.2	1087.3	1064.9	1042.3	1044.2
127.5°	1180.6	1194.3	1173.5	1150.5	1152.7
130°	1251.5	1268.1	1245.9	1221.4	1225.1
132.5°	1323.9	1340.5	1318.2	1292.4	1299.0
135°	1434.3	1450.9	1426.8	1400.6	1409.8
137.5°	1538.4	1555.0	1528.6	1506.6	1517.6
140°	1607.7	1624.3	1596.4	1575.9	1587.0
142.5°	1675.6	1695.1	1665.8	1643.9	1657.9
145°	1777.4	1797.6	1769.8	1749.4	1762.3
147.5°	1873.9	1894.1	1866.0	1846.3	1859.5
150°	1935.7	1956.0	1926.3	1909.6	1924.4
152.5°	1993.0	2016.2	1985.1	1968.5	1987.7
155°	2078.9	2099.2	2069.5	2056.7	2073.3
157.5°	2153.6	2177.2	2147.5	2136.5	2149.8
160°	2203.3	2225.4	2195.8	2184.8	2199.6
162.5°	2241.0	2264.6	2236.5	2224.1	2241.8
165°	2297.6	2321.5	2291.9	2279.2	2299.5
167.5°	2342.1	2367.5	2337.5	2324.4	2345.1
170°	2369.2	2393.1	2361.7	2347.1	2369.2
172.5°	2387.3	2412.7	2379.7	2365.0	2379.7
175°	2406.9	2432.7	2401.2	2386.3	2391.8
177.5°	2416.3	2437.0	2411.8	2398.6	2416.3
180°	2416.3	2416.3	2416.3	2416.3	2416.3

(END OF REPORT)