

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: P1057018

Luminaire Tested: CB2-D-030U-085D-840-1D-UNV-STD-W-8

Issue Date: 7/31/2025

Test Information

Test Method: LM-79-2019
Report Number: P1057018
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-030U-085D-840-1D-UNV-STD-W-8
Description: CORELITE BASIC SLOT LED LUMINAIRE, DIFFUSER DUST COVER UPLIGHT
2-INCH APERTURE
DOWNLIGHT 850 LUMENS PER FOOT
UPLIGHT 300 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8929.8 lumens
Efficiency: N/A
Efficacy: 120.5 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-Direct

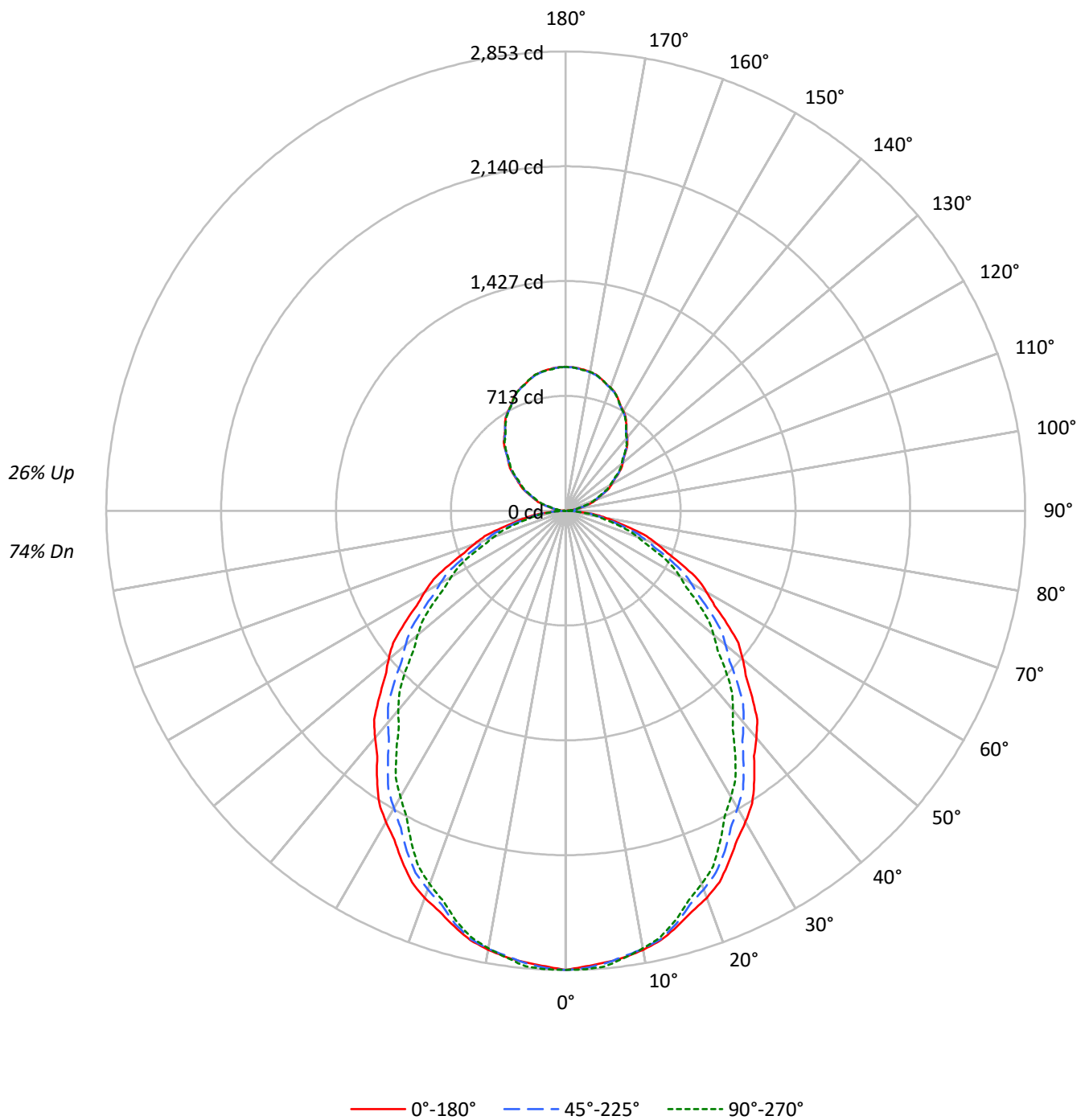
Input Watts (W): 74.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	113	113	113	113	107	107	107	107	97	97	97	87	87	87	79	79	79
1	104	99	95	92	98	94	91	88	86	83	80	77	75	73	70	68	67
2	95	87	81	75	90	83	77	73	75	71	67	68	65	62	62	59	57
3	86	77	69	63	82	73	66	61	67	61	57	61	56	53	55	52	49
4	79	68	60	54	75	65	58	52	60	54	49	54	49	45	49	46	42
5	73	61	53	47	69	58	51	45	54	47	42	49	44	40	45	40	37
6	68	55	47	41	64	53	45	40	49	42	37	44	39	35	41	36	33
7	63	50	42	36	59	48	40	35	44	38	33	41	35	31	37	33	29
8	58	46	38	32	55	44	36	31	40	34	30	37	32	28	34	30	26
9	54	42	34	29	52	40	33	28	37	31	27	34	29	25	32	27	24
10	51	39	31	26	49	37	30	26	35	28	24	32	27	23	30	25	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	24844	24844	24844
5°	24634	24672	24844
10°	24493	24436	24416
15°	24106	23948	23751
20°	23726	23200	22876
25°	23089	22438	21808
30°	22450	21461	20648
35°	21713	20460	19484
40°	20935	19518	18377
45°	20150	18537	17299
50°	19444	17579	16247
55°	18573	16583	15256
60°	17578	15637	14268
65°	16520	14583	13279
70°	15351	13403	12013
75°	13964	12127	10878
80°	12488	10627	9860
85°	9602	8733	7204

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 20150 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.3	3.0
10°-20°	747.8	8.4
20°-30°	1075.3	12.0
30°-40°	1208.6	13.5
40°-50°	1167.5	13.1
50°-60°	986.4	11.0
60°-70°	708.5	7.9
70°-80°	387.3	4.3
80°-90°	102.9	1.2
90°-100°	34.5	0.4
100°-110°	142.3	1.6
110°-120°	258.3	2.9
120°-130°	351.4	3.9
130°-140°	405.7	4.5
140°-150°	408.8	4.6
150°-160°	352.8	4.0
160°-170°	239.1	2.7
170°-180°	84.3	0.9
0°-30°	2091.4	23.4
0°-40°	3300.0	37.0
0°-60°	5453.9	61.1
0°-90°	6652.6	74.5
90°-120°	435.0	4.9
90°-150°	1601.0	17.9
90°-180°	2277.0	25.5
0°-180°	8929.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2853	2853	2853	2853	2853	
5°	2818	2856	2822	2823	2842	268
15°	2674	2697	2656	2630	2634	754
25°	2403	2405	2335	2282	2270	1106
35°	2042	2019	1924	1850	1833	1276
45°	1636	1602	1505	1426	1405	1264
55°	1223	1178	1092	1024	1005	1094
65°	802	772	708	657	644	795
75°	415	389	360	332	323	444
85°	96	90	87	76	72	114
90°	0	0	1	0	1	5
95°	33	29	28	22	22	39
105°	141	139	135	127	126	149
115°	268	267	262	254	254	264
125°	398	402	394	385	386	355
135°	530	536	527	518	521	408
145°	657	664	654	646	651	410
155°	768	776	765	760	766	353
165°	849	858	847	842	850	239
175°	889	899	887	882	884	84
180°	893	893	893	893	893	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2852.8	2852.8	2852.8	2852.8	2852.8
2.5°	2833.6	2867.8	2842.4	2846.0	2851.1
5°	2817.9	2856.3	2822.3	2822.7	2841.9
7.5°	2797.8	2834.1	2791.2	2783.3	2801.3
10°	2769.8	2806.1	2763.3	2748.3	2761.1
12.5°	2733.1	2767.7	2726.6	2702.8	2713.9
15°	2673.7	2697.2	2656.2	2630.1	2634.4
17.5°	2609.1	2623.6	2564.5	2542.6	2538.3
20°	2560.1	2572.9	2503.3	2472.7	2468.4
22.5°	2497.2	2508.3	2435.2	2397.5	2391.5
25°	2402.9	2405.0	2335.1	2282.4	2269.6
27.5°	2304.1	2297.3	2219.8	2157.4	2140.7
30°	2232.5	2223.9	2134.2	2068.3	2053.3
32.5°	2155.6	2140.2	2050.3	1979.2	1964.2
35°	2042.4	2018.9	1924.5	1849.8	1832.7
37.5°	1921.8	1895.4	1802.6	1721.3	1702.1
40°	1841.5	1811.6	1716.9	1635.7	1616.5
42.5°	1761.1	1727.8	1631.3	1550.0	1529.1
45°	1636.1	1601.9	1505.1	1425.9	1404.6
47.5°	1517.3	1473.7	1379.7	1301.0	1279.6
50°	1435.2	1388.2	1297.5	1220.6	1199.2
52.5°	1351.3	1302.6	1215.4	1142.0	1120.6
55°	1223.3	1178.4	1092.2	1024.1	1004.8
57.5°	1096.6	1053.4	974.7	909.6	890.8
60°	1009.2	972.9	897.8	836.2	819.2
62.5°	925.3	892.4	820.9	764.6	747.5
65°	801.7	771.8	707.7	657.2	644.4
67.5°	681.5	651.6	599.8	554.5	540.0
70°	602.9	573.0	526.4	484.6	471.8
72.5°	527.8	496.1	458.3	420.1	410.7
75°	415.0	389.4	360.4	331.8	323.3
77.5°	315.4	290.7	269.6	249.4	247.3
80°	249.0	227.7	211.9	198.7	196.6
82.5°	186.1	169.9	159.5	149.8	149.4
85°	96.1	89.7	87.4	76.4	72.1
87.5°	28.0	28.0	24.6	21.0	21.1
90°	0.0	0.0	0.7	0.0	0.7
92.5°	8.4	7.3	6.8	4.5	5.2
95°	33.4	29.3	27.9	21.6	21.6
97.5°	63.1	59.0	56.8	50.4	49.0
100°	84.3	80.2	78.0	71.0	69.7
102.5°	106.0	104.1	100.3	92.7	91.4
105°	140.7	138.7	135.1	127.4	126.1
107.5°	176.4	176.8	171.5	165.2	163.3
110°	202.0	201.3	197.1	190.8	189.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	228.2	227.0	222.7	216.4	215.1
115°	267.5	266.8	261.9	254.2	253.5
117.5°	304.8	307.0	301.2	293.1	292.8
120°	331.5	334.3	327.4	320.4	319.0
122.5°	357.7	361.0	354.1	346.0	346.3
125°	397.7	401.8	393.5	385.2	385.9
127.5°	436.3	441.3	433.6	425.2	426.0
130°	462.5	468.6	460.4	451.4	452.7
132.5°	489.2	495.4	487.1	477.6	480.0
135°	530.0	536.2	527.3	517.6	521.0
137.5°	568.5	574.6	564.9	556.7	560.8
140°	594.1	600.3	589.9	582.4	586.5
142.5°	619.2	626.4	615.6	607.5	612.7
145°	656.8	664.3	654.0	646.5	651.2
147.5°	692.5	700.0	689.5	682.3	687.2
150°	715.3	722.8	711.8	705.7	711.1
152.5°	736.5	745.1	733.6	727.5	734.5
155°	768.3	775.7	764.8	760.0	766.2
157.5°	795.8	804.6	793.6	789.5	794.4
160°	814.2	822.4	811.4	807.4	812.8
162.5°	828.2	836.9	826.5	821.9	828.4
165°	849.0	857.9	847.0	842.3	849.7
167.5°	865.5	874.9	863.8	859.0	866.6
170°	875.5	884.4	872.7	867.3	875.5
172.5°	882.2	891.6	879.4	874.0	879.4
175°	889.4	899.0	887.4	881.8	883.9
177.5°	892.9	900.6	891.3	886.4	892.9
180°	892.9	892.9	892.9	892.9	892.9

(END OF REPORT)