

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: P1057016

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

Issue Date: 7/31/2025

Test Information

Test Method: LM-79-2019
Report Number: P1057016
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-830-1D-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: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8295.4 lumens
Efficiency: N/A
Efficacy: 111.9 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

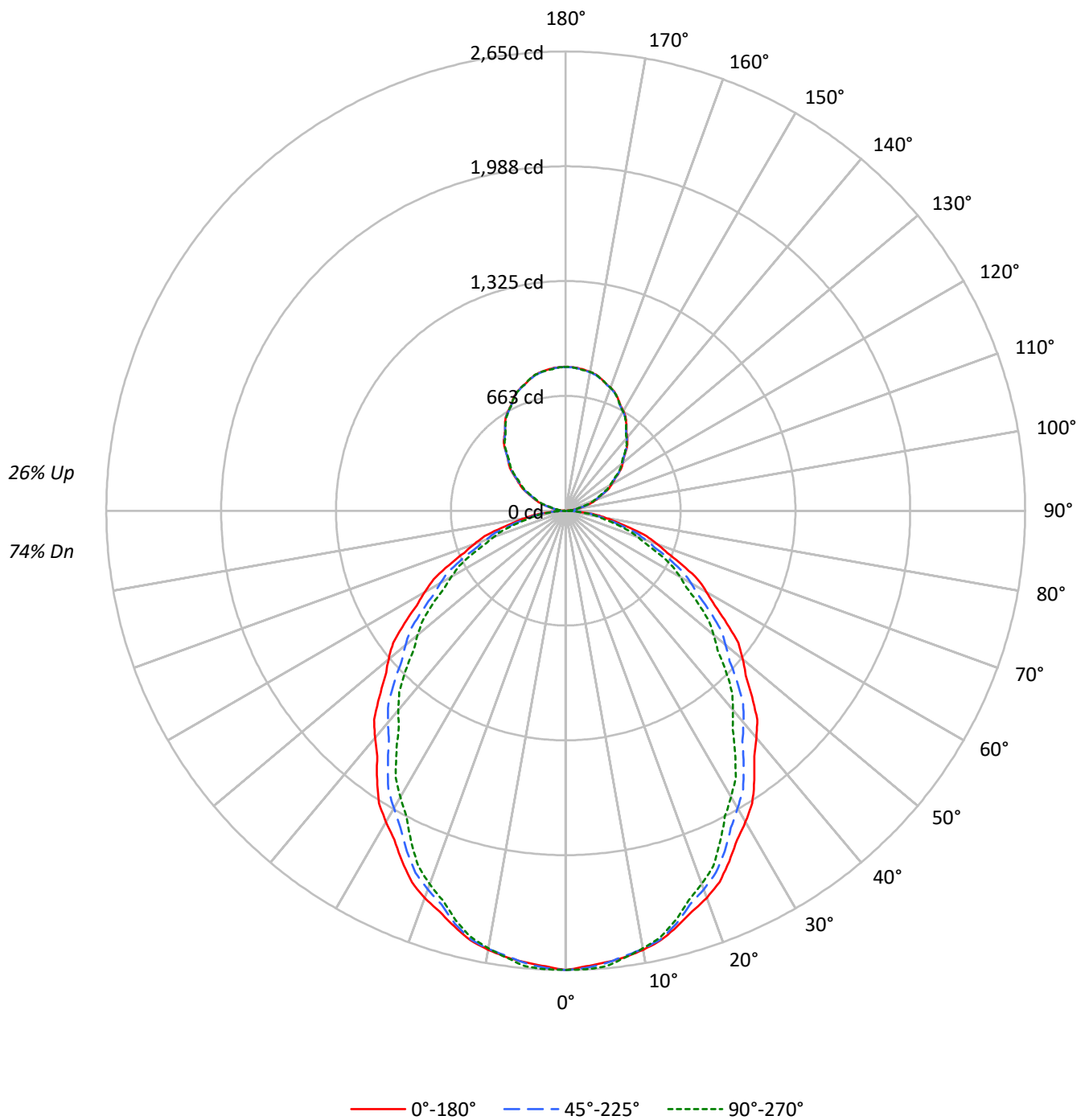
Input Watts (W): 74.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	23080	23080	23080
5°	22884	22919	23079
10°	22753	22700	22681
15°	22394	22247	22064
20°	22040	21552	21251
25°	21448	20844	20260
30°	20855	19936	19182
35°	20171	19006	18100
40°	19447	18133	17071
45°	18719	17219	16070
50°	18063	16331	15093
55°	17254	15405	14172
60°	16329	14526	13255
65°	15346	13549	12335
70°	14262	12451	11160
75°	12975	11265	10104
80°	11600	9870	9158
85°	8923	8114	6695

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 18719 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.2	3.0
10°-20°	694.7	8.4
20°-30°	998.9	12.0
30°-40°	1122.7	13.5
40°-50°	1084.5	13.1
50°-60°	916.4	11.0
60°-70°	658.2	7.9
70°-80°	359.7	4.3
80°-90°	95.6	1.2
90°-100°	32.1	0.4
100°-110°	132.2	1.6
110°-120°	239.9	2.9
120°-130°	326.5	3.9
130°-140°	376.9	4.5
140°-150°	379.8	4.6
150°-160°	327.7	4.0
160°-170°	222.1	2.7
170°-180°	78.4	0.9
0°-30°	1942.8	23.4
0°-40°	3065.5	37.0
0°-60°	5066.4	61.1
0°-90°	6179.9	74.5
90°-120°	404.1	4.9
90°-150°	1487.3	17.9
90°-180°	2115.0	25.5
0°-180°	8295.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2650	2650	2650	2650	2650	
5°	2618	2653	2622	2622	2640	249
15°	2484	2506	2468	2443	2447	700
25°	2232	2234	2169	2120	2108	1028
35°	1897	1876	1788	1718	1702	1185
45°	1520	1488	1398	1325	1305	1174
55°	1136	1095	1015	951	933	1016
65°	745	717	658	610	599	738
75°	386	362	335	308	300	412
85°	89	83	81	71	67	106
90°	0	0	1	0	1	5
95°	31	27	26	20	20	36
105°	131	129	126	118	117	139
115°	248	248	243	236	236	245
125°	370	373	366	358	358	330
135°	492	498	490	481	484	379
145°	610	617	608	600	605	381
155°	714	721	710	706	712	328
165°	789	797	787	782	789	222
175°	826	835	824	819	821	78
180°	830	830	830	830	830	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2650.2	2650.2	2650.2	2650.2	2650.2
2.5°	2632.3	2664.0	2640.4	2643.8	2648.5
5°	2617.7	2653.4	2621.7	2622.2	2640.0
7.5°	2599.0	2632.7	2592.9	2585.6	2602.3
10°	2573.0	2606.8	2567.0	2553.0	2564.9
12.5°	2539.0	2571.1	2532.9	2510.8	2521.1
15°	2483.8	2505.6	2467.5	2443.3	2447.2
17.5°	2423.7	2437.2	2382.3	2361.9	2357.9
20°	2378.2	2390.1	2325.5	2297.0	2293.0
22.5°	2319.8	2330.1	2262.2	2227.1	2221.6
25°	2232.1	2234.1	2169.2	2120.3	2108.4
27.5°	2140.4	2134.1	2062.1	2004.1	1988.6
30°	2073.9	2065.9	1982.5	1921.3	1907.5
32.5°	2002.4	1988.1	1904.6	1838.6	1824.7
35°	1897.3	1875.5	1787.7	1718.4	1702.5
37.5°	1785.3	1760.7	1674.5	1599.0	1581.2
40°	1710.6	1682.8	1595.0	1519.5	1501.6
42.5°	1636.0	1605.0	1515.4	1439.9	1420.4
45°	1519.9	1488.1	1398.1	1324.6	1304.8
47.5°	1409.5	1369.0	1281.7	1208.6	1188.7
50°	1333.2	1289.5	1205.4	1133.9	1114.0
52.5°	1255.3	1210.0	1129.1	1060.8	1041.0
55°	1136.4	1094.7	1014.6	951.3	933.4
57.5°	1018.7	978.6	905.4	845.0	827.5
60°	937.5	903.8	834.0	776.8	761.0
62.5°	859.6	829.0	762.6	710.3	694.4
65°	744.7	716.9	657.5	610.5	598.6
67.5°	633.1	605.3	557.2	515.1	501.6
70°	560.1	532.3	489.0	450.2	438.3
72.5°	490.3	460.9	425.7	390.2	381.5
75°	385.6	361.7	334.8	308.3	300.3
77.5°	293.0	270.0	250.4	231.7	229.7
80°	231.3	211.5	196.8	184.6	182.6
82.5°	172.9	157.8	148.1	139.2	138.8
85°	89.3	83.3	81.2	70.9	67.0
87.5°	26.0	26.0	22.9	19.5	19.6
90°	0.0	0.0	0.6	0.0	0.6
92.5°	7.8	6.8	6.3	4.2	4.8
95°	31.1	27.3	25.9	20.1	20.1
97.5°	58.6	54.8	52.8	46.8	45.6
100°	78.3	74.5	72.5	66.0	64.7
102.5°	98.5	96.7	93.2	86.2	84.9
105°	130.7	128.8	125.5	118.4	117.1
107.5°	163.8	164.2	159.3	153.4	151.7
110°	187.6	187.0	183.1	177.3	176.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	212.0	210.8	206.9	201.1	199.8
115°	248.5	247.8	243.3	236.2	235.5
117.5°	283.1	285.2	279.8	272.3	272.0
120°	308.0	310.5	304.1	297.6	296.3
122.5°	332.3	335.3	328.9	321.4	321.7
125°	369.5	373.2	365.6	357.8	358.5
127.5°	405.3	410.0	402.8	395.0	395.7
130°	429.6	435.3	427.7	419.3	420.6
132.5°	454.5	460.2	452.5	443.7	445.9
135°	492.4	498.1	489.8	480.8	484.0
137.5°	528.1	533.8	524.7	517.2	521.0
140°	551.9	557.6	548.0	541.0	544.8
142.5°	575.2	581.9	571.8	564.3	569.1
145°	610.1	617.1	607.6	600.5	605.0
147.5°	643.3	650.2	640.6	633.8	638.4
150°	664.5	671.5	661.3	655.6	660.6
152.5°	684.2	692.1	681.4	675.8	682.4
155°	713.7	720.6	710.4	706.0	711.7
157.5°	739.3	747.4	737.2	733.4	738.0
160°	756.4	764.0	753.8	750.0	755.1
162.5°	769.3	777.4	767.8	763.5	769.6
165°	788.7	796.9	786.8	782.4	789.4
167.5°	804.0	812.7	802.4	797.9	805.0
170°	813.3	821.5	810.7	805.7	813.3
172.5°	819.5	828.3	816.9	811.9	816.9
175°	826.3	835.1	824.3	819.2	821.1
177.5°	829.5	836.6	827.9	823.4	829.5
180°	829.5	829.5	829.5	829.5	829.5

(END OF REPORT)