

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: NEO-RAY

Report Number: P1030862

Luminaire Tested: S123DIW-B340D755UB2750-4F0-XX-W2A-F_3500K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1030862
REPORT IS A COMBINATION OF REPORTS P991470 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIW-B340D755UB2750-4F0-XX-W2A-F_3500K
Description: Define 3 Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

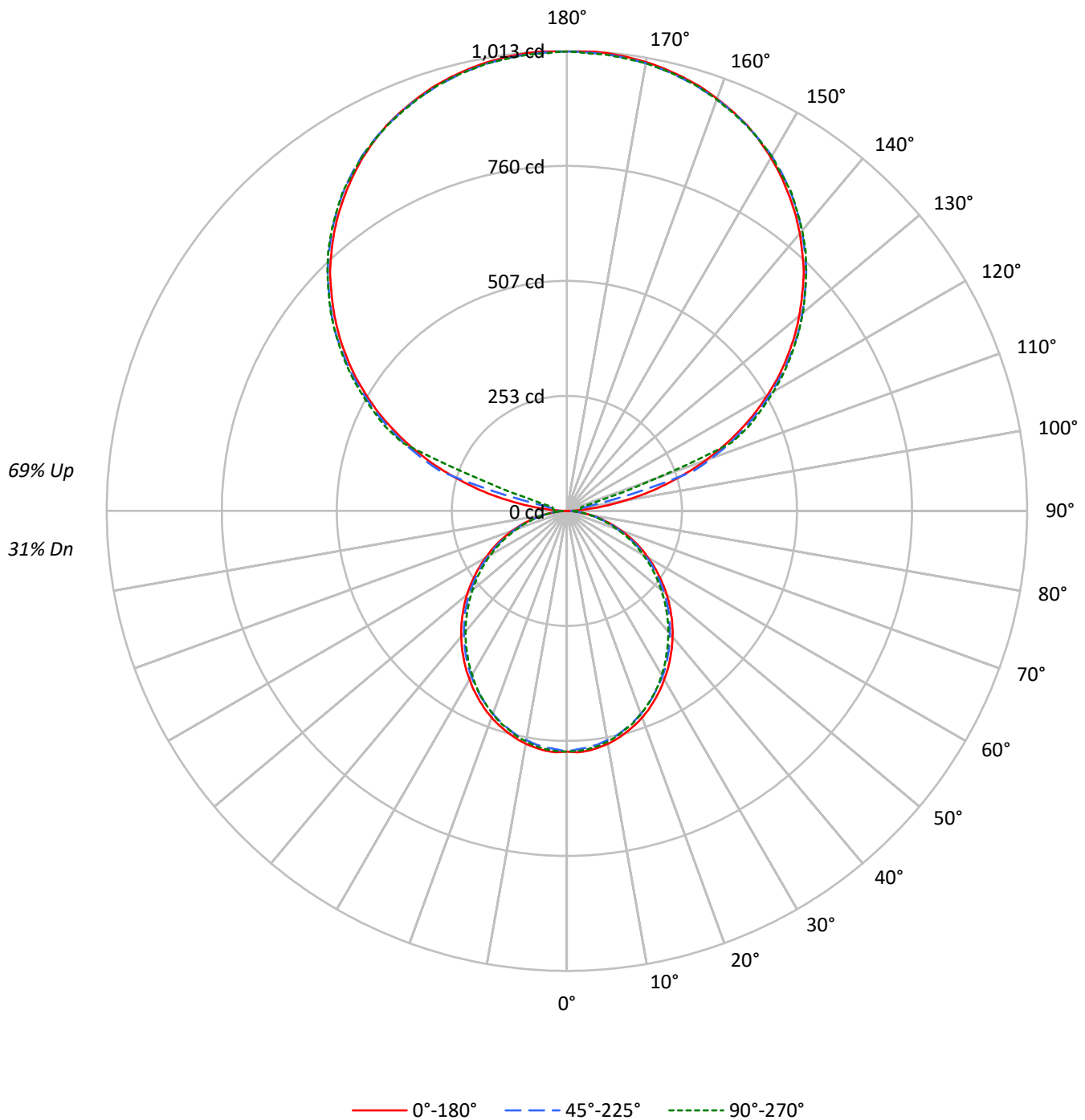
Lumens per Lamp: N/A
Luminaire Lumens: 4466.0 lumens
Efficiency: N/A
Efficacy: 123.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 36.2
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

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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	50	30	10
RCR																				
0	103	103	103	103	92	92	92	92	73	73	73	55	55	55	39	39	39	39	39	31
1	93	89	85	82	84	80	77	74	64	61	59	48	47	46	34	33	32	32	32	26
2	85	78	72	67	76	70	65	61	56	52	49	42	40	38	30	29	27	27	27	22
3	78	68	61	56	69	62	56	51	49	45	41	37	34	32	26	25	23	23	23	18
4	71	60	53	47	63	55	48	43	43	39	35	33	30	27	24	22	20	20	20	16
5	65	54	46	40	58	49	42	37	39	34	30	30	26	24	21	19	17	17	17	14
6	60	48	40	35	53	43	37	32	35	30	26	27	23	21	19	17	15	15	15	12
7	55	43	35	30	49	39	32	28	31	26	23	24	21	18	18	15	13	13	13	11
8	51	39	32	26	46	35	29	24	29	24	20	22	19	16	16	14	12	12	12	10
9	47	36	28	23	43	32	26	22	26	21	18	20	17	14	15	13	11	11	11	9
10	44	33	26	21	40	30	23	19	24	19	16	19	15	13	14	11	10	10	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5704	5704	5704
5°	5717	5506	5499
10°	5667	5321	5265
15°	5588	5127	5012
20°	5497	4911	4761
25°	5380	4684	4492
30°	5253	4449	4210
35°	5119	4209	3928
40°	4978	3957	3653
45°	4824	3712	3364
50°	4667	3438	3074
55°	4466	3153	2780
60°	4259	2839	2468
65°	4064	2498	2143
70°	3784	2120	1762
75°	3378	1680	1368
80°	2921	1180	967
85°	2276	635	485

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4824 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.0	1.1
10°-20°	141.0	3.2
20°-30°	208.3	4.7
30°-40°	243.3	5.4
40°-50°	244.6	5.5
50°-60°	214.8	4.8
60°-70°	160.0	3.6
70°-80°	91.1	2.0
80°-90°	27.9	0.6
90°-100°	35.7	0.8
100°-110°	172.5	3.9
110°-120°	422.8	9.5
120°-130°	536.7	12.0
130°-140°	573.4	12.8
140°-150°	536.2	12.0
150°-160°	432.5	9.7
160°-170°	279.1	6.2
170°-180°	96.2	2.2
0°-30°	399.3	8.9
0°-40°	642.6	14.4
0°-60°	1102.0	24.7
0°-90°	1381.0	30.9
90°-120°	631.0	14.1
90°-150°	2277.3	51.0
90°-180°	3085.0	69.1
0°-180°	4466.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	530	530	530	530	530	
5°	530	528	523	528	527	50
15°	505	503	497	501	498	142
25°	458	456	450	450	449	211
35°	396	394	388	385	383	248
45°	325	323	317	312	309	251
55°	246	246	240	235	233	221
65°	168	166	161	158	156	166
75°	89	87	86	83	82	95
85°	24	23	23	22	22	25
90°	1	8	18	21	23	4
95°	46	15	23	29	29	55
105°	224	232	165	32	33	238
115°	420	425	432	439	442	415
125°	592	598	601	603	604	529
135°	738	742	745	747	745	568
145°	851	856	858	859	859	533
155°	938	936	937	940	936	432
165°	989	986	986	992	986	279
175°	1012	1008	1009	1014	1008	96
180°	1012	1012	1012	1012	1012	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	529.9	529.9	529.9	529.9	529.9
2.5°	532.1	530.3	525.3	529.9	529.4
5°	530.3	528.0	523.0	527.6	526.7
7.5°	526.2	523.9	518.9	523.0	522.6
10°	520.8	518.5	512.6	516.7	515.7
12.5°	513.5	511.6	506.2	508.9	508.5
15°	504.8	503.0	497.1	500.7	498.0
17.5°	495.2	493.0	487.0	489.8	488.9
20°	484.3	481.6	475.6	477.5	476.1
22.5°	472.0	469.3	463.3	464.7	462.9
25°	458.3	455.6	449.7	450.1	448.8
27.5°	444.2	441.5	435.1	435.6	434.2
30°	428.7	426.4	420.1	420.1	416.9
32.5°	413.2	410.0	405.5	402.3	400.9
35°	396.4	393.6	387.7	385.0	382.7
37.5°	379.5	375.9	369.9	366.8	365.4
40°	361.7	359.0	352.6	349.0	347.2
42.5°	344.0	340.8	334.4	330.8	328.9
45°	324.8	323.0	317.1	311.6	309.4
47.5°	306.2	303.4	298.0	292.5	290.7
50°	287.0	284.8	278.8	273.8	271.1
52.5°	267.0	265.6	259.2	255.1	252.4
55°	246.5	246.0	240.1	235.1	232.8
57.5°	227.3	225.5	221.0	216.4	213.7
60°	206.4	205.9	200.5	196.4	194.1
62.5°	187.7	186.3	180.9	176.8	175.4
65°	168.1	165.8	161.3	157.6	156.3
67.5°	147.2	145.3	141.7	138.5	136.7
70°	128.5	125.7	123.0	119.8	117.5
72.5°	108.9	107.1	103.9	101.1	100.2
75°	88.8	87.0	85.7	83.4	82.0
77.5°	71.1	70.2	68.3	66.5	66.5
80°	53.8	52.4	51.5	51.0	51.0
82.5°	36.9	36.9	36.9	36.0	35.5
85°	23.7	22.8	22.8	21.9	21.9
87.5°	11.8	10.5	10.0	9.6	9.6
90°	0.8	8.3	18.0	21.1	22.6
92.5°	17.3	12.8	19.5	24.8	25.6
95°	45.9	15.0	23.3	28.6	28.6
97.5°	83.5	62.4	24.1	30.1	30.8
100°	127.1	142.1	24.8	30.8	31.6
102.5°	176.7	186.4	55.6	30.8	32.3
105°	224.0	232.3	164.6	31.6	33.1
107.5°	274.4	281.2	292.5	176.7	78.2
110°	324.8	330.8	339.1	314.3	206.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	372.9	378.2	386.4	393.2	391.7
115°	420.3	424.8	431.5	439.1	442.1
117.5°	466.9	472.1	475.9	481.9	482.7
120°	509.7	516.5	518.7	524.8	524.8
122.5°	553.3	558.6	561.6	565.4	566.1
125°	592.4	598.4	601.4	603.0	604.5
127.5°	631.5	637.5	641.3	643.6	642.0
130°	667.6	673.6	676.6	679.6	678.1
132.5°	702.2	708.2	710.5	713.5	711.2
135°	737.5	742.0	745.0	747.3	745.0
137.5°	767.6	773.6	775.1	778.9	777.4
140°	797.7	802.2	804.4	807.4	805.9
142.5°	825.5	830.0	832.3	834.5	832.3
145°	851.1	856.3	857.8	859.3	859.3
147.5°	875.9	879.6	881.1	882.6	878.9
150°	898.4	900.7	902.2	903.7	901.4
152.5°	918.7	919.5	920.2	923.2	919.5
155°	937.5	936.0	936.8	940.5	936.0
157.5°	952.5	952.5	951.8	956.3	950.3
160°	966.1	965.3	964.6	969.1	963.8
162.5°	978.9	976.6	975.9	981.1	976.6
165°	988.6	986.4	985.6	991.6	986.4
167.5°	996.9	993.9	993.9	999.9	993.9
170°	1003.7	1000.7	1000.7	1006.7	1000.7
172.5°	1008.2	1004.4	1005.2	1011.2	1004.4
175°	1011.9	1008.2	1008.9	1014.2	1008.2
177.5°	1013.4	1009.7	1010.4	1016.4	1008.9
180°	1011.9	1011.9	1011.9	1011.9	1011.9

(END OF REPORT)