

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: P1011869

Luminaire Tested: S123DIP-B560D805UB30-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011869
REPORT IS A COMBINATION OF REPORTS P990190 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B560D805UB30-4F0-XX-W2A-F1
Description: Define 3 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

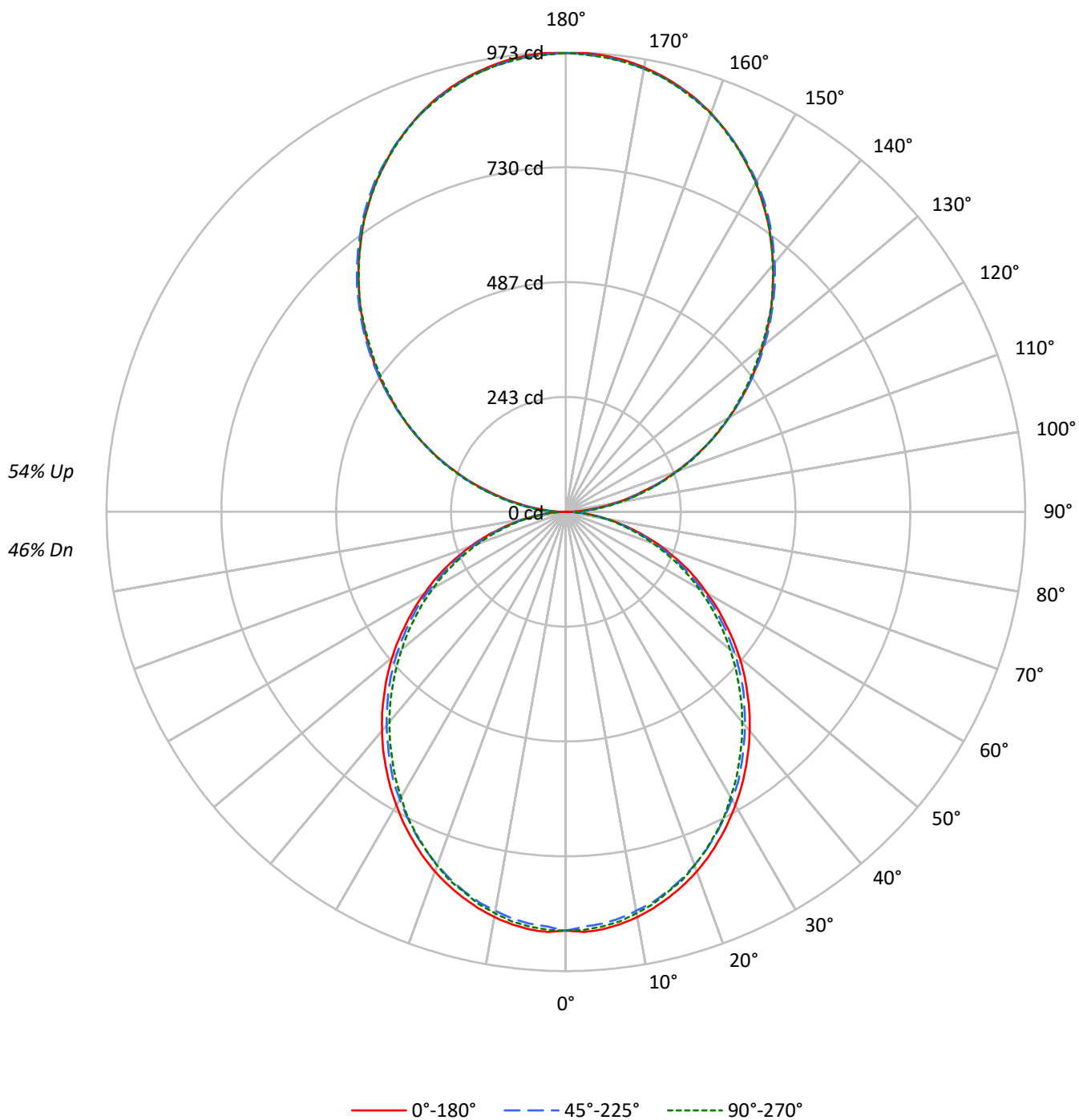
Lumens per Lamp: N/A
Luminaire Lumens: 5004.0 lumens
Efficiency: N/A
Efficacy: 111.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 45.1
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

TEST NUMBER: P1011869

CATALOG NUMBER: S123DIP-B560D805UB30-4F0-XX-W2A-F1

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	106	106	106	106	98	98	98	98	81	81	81	66	66	66	53	53	53
1	97	93	89	85	89	85	82	79	71	69	67	58	57	55	46	45	44
2	88	81	75	69	81	74	69	65	62	58	55	51	48	46	41	39	37
3	80	71	64	58	73	65	59	54	55	50	46	45	42	39	36	34	32
4	74	63	55	49	67	58	51	46	49	43	39	40	36	33	32	30	27
5	67	56	48	42	62	52	44	39	44	38	34	36	32	29	29	26	24
6	62	50	42	36	57	46	39	34	39	34	30	33	28	25	26	23	21
7	57	45	37	32	53	42	35	30	36	30	26	30	25	22	24	21	19
8	53	41	33	28	49	38	31	26	32	27	23	27	23	20	22	19	17
9	50	37	30	25	45	35	28	23	30	24	21	25	21	18	20	17	15
10	46	34	27	22	42	32	25	21	27	22	19	23	19	16	19	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9550	9550	9550
5°	9574	9221	9207
10°	9488	8908	8817
15°	9356	8584	8392
20°	9205	8223	7971
25°	9009	7843	7521
30°	8795	7450	7048
35°	8571	7048	6578
40°	8336	6626	6115
45°	8078	6214	5632
50°	7815	5757	5147
55°	7478	5279	4656
60°	7131	4753	4133
65°	6805	4183	3588
70°	6334	3551	2951
75°	5660	2811	2291
80°	4886	1976	1620
85°	3813	1061	811

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8078 cd/sqm

TEST NUMBER: P1011869

CATALOG NUMBER: S123DIP-B560D805UB30-4F0-XX-W2A-F1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.6	1.7
10°-20°	236.2	4.7
20°-30°	348.8	7.0
30°-40°	407.4	8.1
40°-50°	409.5	8.2
50°-60°	359.8	7.2
60°-70°	267.9	5.4
70°-80°	152.5	3.0
80°-90°	45.4	0.9
90°-100°	62.6	1.3
100°-110°	189.4	3.8
110°-120°	322.4	6.4
120°-130°	424.1	8.5
130°-140°	476.7	9.5
140°-150°	468.7	9.4
150°-160°	394.6	7.9
160°-170°	262.7	5.2
170°-180°	92.0	1.8
0°-30°	668.6	13.4
0°-40°	1076.0	21.5
0°-60°	1845.2	36.9
0°-90°	2311.0	46.2
90°-120°	574.3	11.5
90°-150°	1943.8	38.8
90°-180°	2693.0	53.8
0°-180°	5004.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	887	887	887	887	887	
5°	888	884	876	883	882	84
15°	845	842	832	838	834	238
25°	767	763	753	754	751	354
35°	664	659	649	645	641	415
45°	544	541	531	522	518	420
55°	413	412	402	394	390	370
65°	282	278	270	264	262	278
75°	149	146	143	140	137	159
85°	40	38	38	37	37	43
90°	1	8	18	21	23	6
95°	45	50	56	60	60	50
105°	172	173	180	180	182	184
115°	324	327	325	326	325	321
125°	475	477	476	473	470	424
135°	616	621	620	617	615	475
145°	747	749	751	750	747	467
155°	856	856	857	860	854	394
165°	932	930	930	934	929	263
175°	970	967	967	971	966	92
180°	972	972	972	972	972	

TEST NUMBER: P1011869

CATALOG NUMBER: S123DIP-B560D805UB30-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	887.2	887.2	887.2	887.2	887.2
2.5°	891.0	888.0	879.6	887.2	886.4
5°	888.0	884.2	875.8	883.4	881.9
7.5°	881.1	877.3	868.9	875.8	875.0
10°	871.9	868.1	858.2	865.1	863.6
12.5°	859.7	856.7	847.5	852.1	851.4
15°	845.2	842.2	832.3	838.4	833.8
17.5°	829.2	825.4	815.5	820.1	818.5
20°	810.9	806.3	796.4	799.5	797.2
22.5°	790.3	785.7	775.8	778.1	775.1
25°	767.4	762.9	752.9	753.7	751.4
27.5°	743.8	739.2	728.5	729.3	727.0
30°	717.8	714.0	703.4	703.4	698.0
32.5°	691.9	686.6	678.9	673.6	671.3
35°	663.7	659.1	649.2	644.6	640.8
37.5°	635.5	629.4	619.4	614.1	611.8
40°	605.7	601.1	590.5	584.3	581.3
42.5°	576.0	570.6	559.9	553.8	550.8
45°	543.9	540.9	530.9	521.8	518.0
47.5°	512.6	508.1	498.9	489.8	486.7
50°	480.6	476.8	466.9	458.5	453.9
52.5°	447.0	444.7	434.1	427.2	422.6
55°	412.7	411.9	402.0	393.6	389.8
57.5°	380.7	377.6	370.0	362.4	357.8
60°	345.6	344.8	335.7	328.8	325.0
62.5°	314.3	312.0	302.9	296.0	293.7
65°	281.5	277.7	270.1	263.9	261.7
67.5°	246.4	243.4	237.2	231.9	228.9
70°	215.1	210.5	206.0	200.6	196.8
72.5°	182.3	179.3	173.9	169.4	167.8
75°	148.8	145.7	143.4	139.6	137.3
77.5°	119.0	117.5	114.4	111.4	111.4
80°	90.0	87.7	86.2	85.4	85.4
82.5°	61.8	61.8	61.8	60.3	59.5
85°	39.7	38.1	38.1	36.6	36.6
87.5°	19.8	17.5	16.8	16.0	16.0
90°	0.8	8.4	18.3	21.4	22.9
92.5°	22.9	27.5	32.1	34.4	32.8
95°	45.0	50.4	56.5	59.6	59.6
97.5°	74.1	77.9	82.5	86.3	85.5
100°	103.8	108.4	112.2	114.5	116.0
102.5°	138.2	140.5	145.8	148.1	147.3
105°	171.8	173.3	180.2	180.2	181.7
107.5°	211.5	212.2	215.3	217.6	216.8
110°	248.1	249.7	251.2	254.2	252.7

TEST NUMBER: P1011869

CATALOG NUMBER: S123DIP-B560D805UB30-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	286.3	287.1	287.1	290.9	290.9
115°	324.5	326.8	325.2	326.0	325.2
117.5°	363.4	364.2	362.6	362.6	360.4
120°	399.3	403.9	400.1	399.3	397.8
122.5°	436.7	439.8	438.2	435.9	433.7
125°	474.9	477.2	475.6	472.6	469.5
127.5°	510.0	514.6	513.1	508.5	505.4
130°	545.1	551.2	548.9	545.9	540.5
132.5°	580.2	586.3	584.8	581.0	577.2
135°	616.1	620.7	619.9	616.9	615.4
137.5°	648.9	652.8	655.1	651.2	648.9
140°	683.3	687.1	687.9	687.1	681.8
142.5°	714.6	718.4	720.0	719.2	715.4
145°	747.4	749.0	751.3	750.5	747.4
147.5°	775.7	778.7	781.0	781.0	776.4
150°	805.5	807.0	808.5	808.5	803.9
152.5°	829.9	832.2	832.9	834.5	830.7
155°	855.8	855.8	856.6	859.7	854.3
157.5°	878.0	877.2	878.0	881.0	876.5
160°	898.6	897.1	897.1	900.9	897.8
162.5°	916.9	914.6	915.4	919.2	913.9
165°	932.2	929.9	929.9	934.5	929.1
167.5°	945.2	942.1	942.9	947.5	942.9
170°	955.9	952.8	952.8	958.2	952.8
172.5°	964.3	961.2	961.2	965.8	960.4
175°	969.6	966.6	966.6	971.1	965.8
177.5°	972.7	969.6	969.6	974.2	968.8
180°	971.9	971.9	971.9	971.9	971.9

(END OF REPORT)