

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: P1011860

Luminaire Tested: S123DIP-B560D805UB27-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011860
REPORT IS A COMBINATION OF REPORTS P990166 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B560D805UB27-4F0-XX-W2A-F1
Description: Define 3 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

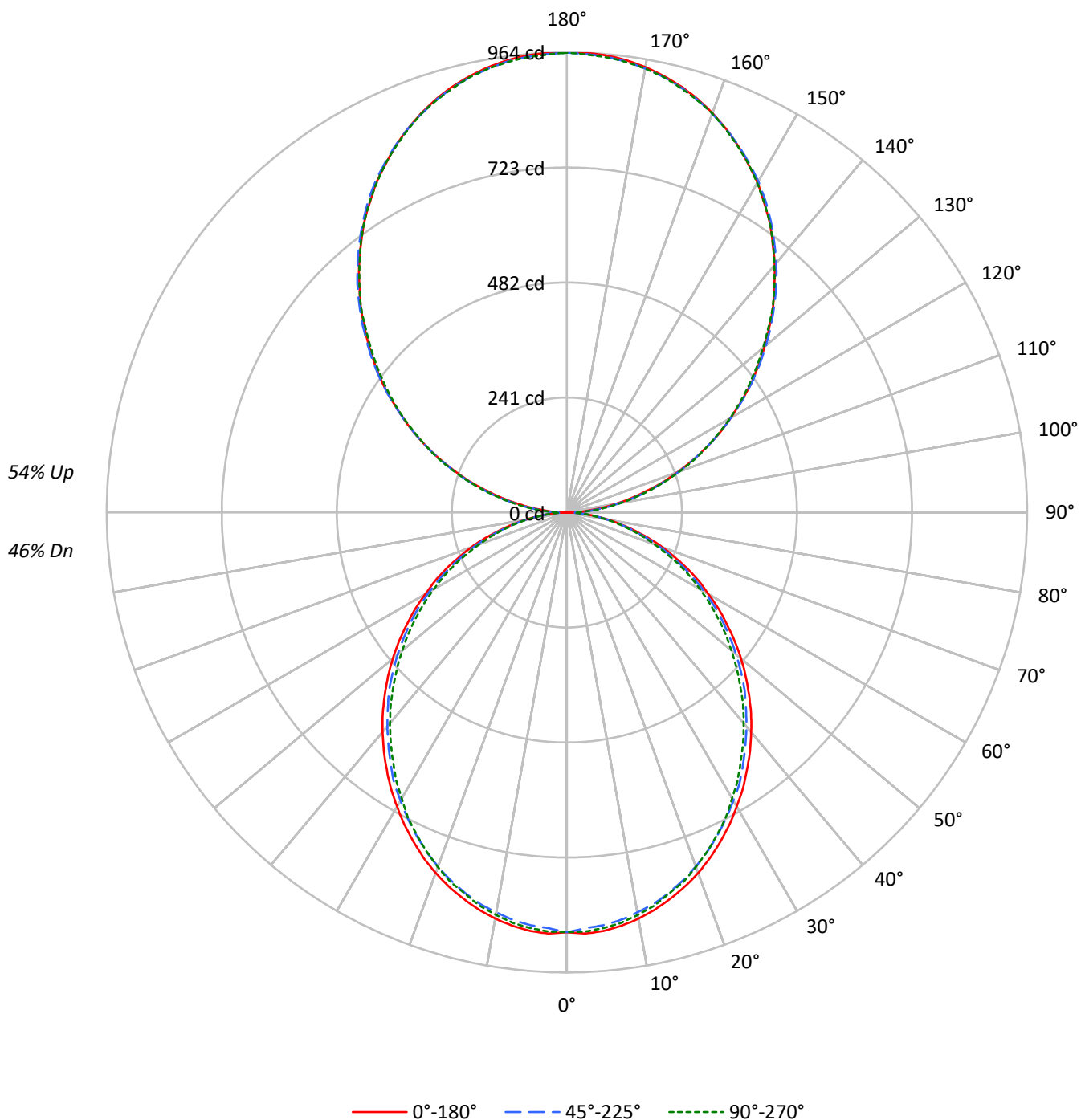
Lumens per Lamp: N/A
Luminaire Lumens: 4961.0 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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: P1011860

CATALOG NUMBER: S123DIP-B560D805UB27-4F0-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°	9467	9467	9467
5°	9491	9141	9126
10°	9406	8831	8741
15°	9275	8509	8320
20°	9125	8152	7902
25°	8932	7775	7456
30°	8719	7385	6987
35°	8496	6987	6521
40°	8264	6568	6063
45°	8008	6161	5583
50°	7747	5706	5103
55°	7413	5233	4615
60°	7069	4712	4097
65°	6747	4146	3556
70°	6281	3520	2925
75°	5611	2788	2271
80°	4843	1960	1606
85°	3775	1053	805

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8008 cd/sqm

TEST NUMBER: P1011860

CATALOG NUMBER: S123DIP-B560D805UB27-4F0-XX-W2A-F1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.9	1.7
10°-20°	234.1	4.7
20°-30°	345.8	7.0
30°-40°	403.8	8.1
40°-50°	406.0	8.2
50°-60°	356.6	7.2
60°-70°	265.6	5.4
70°-80°	151.1	3.0
80°-90°	45.0	0.9
90°-100°	62.0	1.3
100°-110°	187.7	3.8
110°-120°	319.6	6.4
120°-130°	420.5	8.5
130°-140°	472.6	9.5
140°-150°	464.7	9.4
150°-160°	391.2	7.9
160°-170°	260.4	5.2
170°-180°	91.2	1.8
0°-30°	662.8	13.4
0°-40°	1066.7	21.5
0°-60°	1829.3	36.9
0°-90°	2291.1	46.2
90°-120°	569.4	11.5
90°-150°	1927.2	38.8
90°-180°	2670.0	53.8
0°-180°	4961.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	880	880	880	880	880	
5°	880	876	868	876	874	83
15°	838	835	825	831	827	236
25°	761	756	746	747	745	350
35°	658	653	644	639	635	412
45°	539	536	526	517	514	416
55°	409	408	398	390	386	367
65°	279	275	268	262	259	275
75°	148	144	142	138	136	158
85°	39	38	38	36	36	42
90°	1	8	18	21	23	6
95°	45	50	56	59	59	49
105°	170	172	179	179	180	182
115°	322	324	322	323	322	318
125°	471	473	472	469	466	420
135°	611	615	615	612	610	471
145°	741	743	745	744	741	463
155°	848	848	849	852	847	391
165°	924	922	922	926	921	261
175°	961	958	958	963	958	91
180°	964	964	964	964	964	

TEST NUMBER: P1011860

CATALOG NUMBER: S123DIP-B560D805UB27-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	879.5	879.5	879.5	879.5	879.5
2.5°	883.3	880.3	872.0	879.5	878.8
5°	880.3	876.5	868.2	875.7	874.2
7.5°	873.5	869.7	861.4	868.2	867.4
10°	864.4	860.6	850.8	857.6	856.1
12.5°	852.3	849.3	840.2	844.7	844.0
15°	837.9	834.9	825.1	831.1	826.6
17.5°	822.0	818.3	808.4	813.0	811.5
20°	803.9	799.4	789.5	792.6	790.3
22.5°	783.5	778.9	769.1	771.4	768.4
25°	760.8	756.3	746.4	747.2	744.9
27.5°	737.3	732.8	722.2	723.0	720.7
30°	711.6	707.9	697.3	697.3	692.0
32.5°	685.9	680.6	673.1	667.8	665.5
35°	657.9	653.4	643.6	639.0	635.3
37.5°	630.0	623.9	614.1	608.8	606.5
40°	600.5	595.9	585.3	579.3	576.3
42.5°	571.0	565.7	555.1	549.0	546.0
45°	539.2	536.2	526.4	517.3	513.5
47.5°	508.2	503.7	494.6	485.5	482.5
50°	476.4	472.7	462.8	454.5	450.0
52.5°	443.2	440.9	430.3	423.5	419.0
55°	409.1	408.4	398.5	390.2	386.4
57.5°	377.4	374.3	366.8	359.2	354.7
60°	342.6	341.8	332.8	325.9	322.2
62.5°	311.6	309.3	300.2	293.4	291.2
65°	279.1	275.3	267.7	261.7	259.4
67.5°	244.3	241.2	235.2	229.9	226.9
70°	213.3	208.7	204.2	198.9	195.1
72.5°	180.7	177.7	172.4	167.9	166.4
75°	147.5	144.4	142.2	138.4	136.1
77.5°	118.0	116.5	113.4	110.4	110.4
80°	89.2	87.0	85.5	84.7	84.7
82.5°	61.3	61.3	61.3	59.7	59.0
85°	39.3	37.8	37.8	36.3	36.3
87.5°	19.7	17.4	16.6	15.9	15.9
90°	0.8	8.3	18.2	21.2	22.7
92.5°	22.7	27.3	31.8	34.1	32.5
95°	44.7	50.0	56.0	59.0	59.0
97.5°	73.4	77.2	81.8	85.5	84.8
100°	102.9	107.5	111.3	113.5	115.1
102.5°	137.0	139.3	144.6	146.8	146.1
105°	170.3	171.8	178.6	178.6	180.2
107.5°	209.7	210.4	213.5	215.7	215.0
110°	246.0	247.5	249.0	252.1	250.6

TEST NUMBER: P1011860

CATALOG NUMBER: S123DIP-B560D805UB27-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	283.9	284.6	284.6	288.4	288.4
115°	321.7	324.0	322.5	323.2	322.5
117.5°	360.3	361.1	359.6	359.6	357.3
120°	395.9	400.4	396.6	395.9	394.4
122.5°	433.0	436.0	434.5	432.2	429.9
125°	470.8	473.1	471.6	468.6	465.5
127.5°	505.6	510.2	508.7	504.1	501.1
130°	540.5	546.5	544.2	541.2	535.9
132.5°	575.3	581.3	579.8	576.0	572.3
135°	610.9	615.4	614.6	611.6	610.1
137.5°	643.4	647.2	649.5	645.7	643.4
140°	677.5	681.3	682.0	681.3	676.0
142.5°	708.5	712.3	713.8	713.0	709.3
145°	741.1	742.6	744.8	744.1	741.1
147.5°	769.1	772.1	774.4	774.4	769.8
150°	798.6	800.1	801.6	801.6	797.1
152.5°	822.8	825.1	825.8	827.3	823.6
155°	848.5	848.5	849.3	852.3	847.0
157.5°	870.5	869.7	870.5	873.5	869.0
160°	890.9	889.4	889.4	893.2	890.2
162.5°	909.1	906.8	907.6	911.4	906.1
165°	924.2	922.0	922.0	926.5	921.2
167.5°	937.1	934.1	934.8	939.4	934.8
170°	947.7	944.7	944.7	950.0	944.7
172.5°	956.0	953.0	953.0	957.5	952.2
175°	961.3	958.3	958.3	962.8	957.5
177.5°	964.4	961.3	961.3	965.9	960.6
180°	963.6	963.6	963.6	963.6	963.6

(END OF REPORT)