

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: P1011813

Luminaire Tested: S123DIP-B560D585UB27-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011813
REPORT IS A COMBINATION OF REPORTS P990103 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B560D585UB27-4F0-XX-W2A-D1
Description: Define 3 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

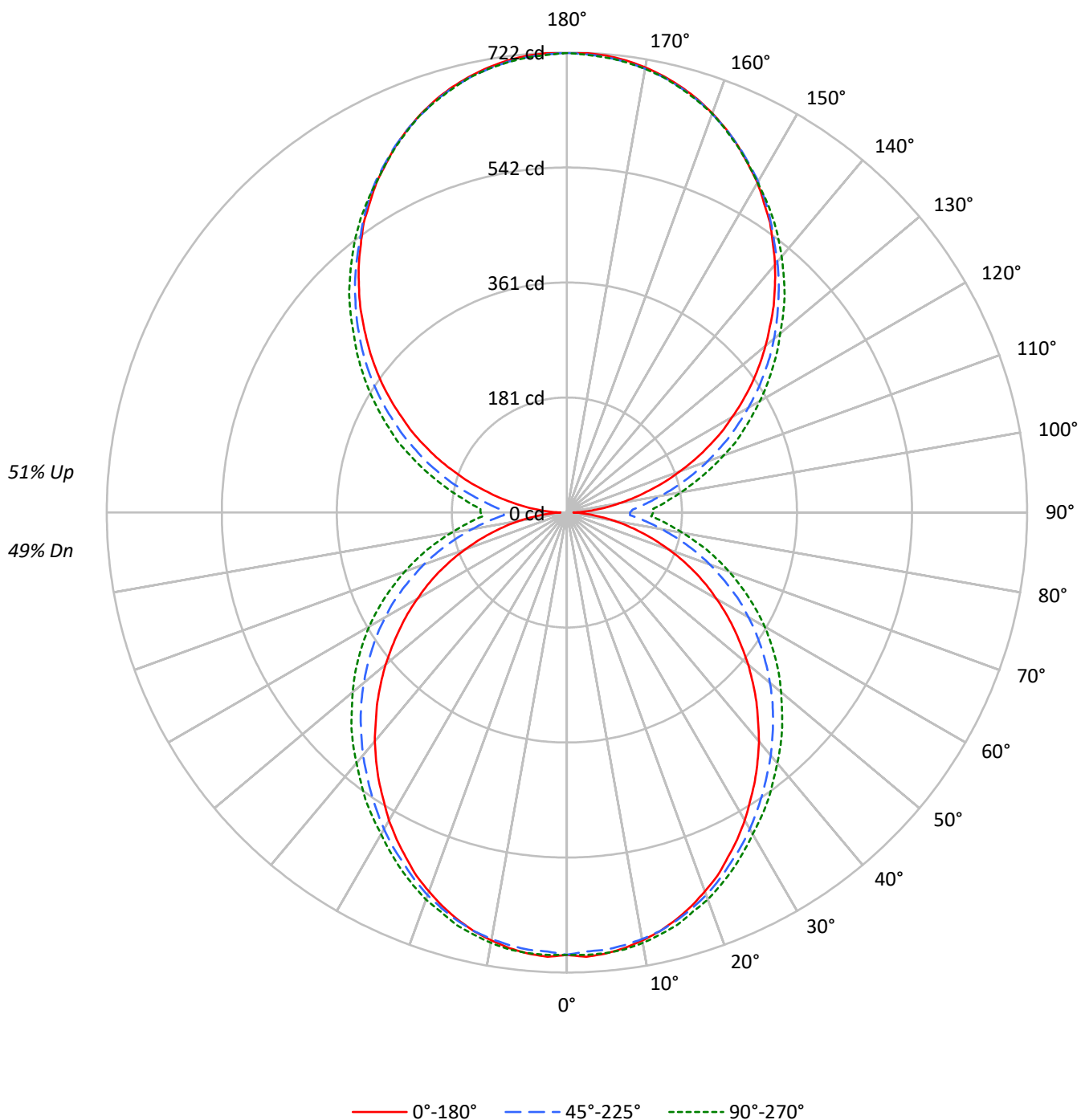
Lumens per Lamp: N/A
Luminaire Lumens: 4333.0 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 39.4
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
RCR																	
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56
1	97	92	88	84	89	85	81	78	71	68	66	59	57	55	47	46	45
2	88	80	73	68	80	73	68	63	62	57	54	51	48	45	41	39	37
3	80	70	62	56	73	64	57	52	54	49	45	45	41	38	36	33	31
4	73	61	53	47	67	57	49	44	48	42	38	40	35	32	32	29	26
5	67	55	46	40	61	50	43	37	43	37	32	36	31	28	29	26	23
6	61	49	40	34	56	45	38	32	38	33	28	32	28	24	26	23	20
7	57	44	36	30	52	41	33	28	35	29	25	29	25	21	24	20	18
8	52	40	32	27	48	37	30	25	32	26	22	27	22	19	22	18	16
9	49	36	29	24	45	34	27	22	29	23	20	24	20	17	20	17	14
10	46	33	26	21	42	31	24	20	27	21	18	23	18	15	19	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7472	7472	7472
5°	7492	7253	7247
10°	7423	7056	7003
15°	7325	6840	6743
20°	7184	6598	6464
25°	7013	6325	6177
30°	6838	6078	5887
35°	6641	5820	5651
40°	6452	5584	5402
45°	6243	5355	5196
50°	6038	5128	4974
55°	5809	4895	4769
60°	5586	4657	4558
65°	5357	4403	4313
70°	5009	4120	4059
75°	4572	3795	3797
80°	4066	3466	3499
85°	3564	3200	3285

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 6243 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.9	1.5
10°-20°	187.7	4.3
20°-30°	280.7	6.5
30°-40°	335.2	7.7
40°-50°	350.7	8.1
50°-60°	329.1	7.6
60°-70°	274.9	6.3
70°-80°	196.5	4.5
80°-90°	118.5	2.7
90°-100°	119.9	2.8
100°-110°	194.6	4.5
110°-120°	275.3	6.4
120°-130°	335.3	7.7
130°-140°	363.0	8.4
140°-150°	349.7	8.1
150°-160°	292.8	6.8
160°-170°	194.9	4.5
170°-180°	68.3	1.6
0°-30°	534.3	12.3
0°-40°	869.5	20.1
0°-60°	1549.3	35.8
0°-90°	2139.2	49.4
90°-120°	589.8	13.6
90°-150°	1637.8	37.8
90°-180°	2194.0	50.6
0°-180°	4333.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	694	694	694	694	694	
5°	695	693	689	695	694	66
15°	662	664	663	671	670	186
25°	597	605	607	617	617	275
35°	514	526	536	548	550	322
45°	420	439	458	472	478	324
55°	321	346	373	393	399	287
65°	222	251	284	307	315	219
75°	120	156	194	218	228	128
85°	37	75	115	141	148	38
90°	10	53	99	127	136	10
95°	42	75	117	142	150	43
105°	134	153	190	212	220	143
115°	245	255	282	300	306	242
125°	355	356	377	391	394	317
135°	459	461	469	480	483	353
145°	556	556	558	563	564	347
155°	635	635	636	638	634	292
165°	692	690	690	694	690	195
175°	720	717	717	721	717	68
180°	721	721	721	721	721	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	694.2	694.2	694.2	694.2	694.2
2.5°	698.0	695.7	689.6	695.7	694.9
5°	694.9	693.4	688.9	694.9	694.2
7.5°	689.6	689.6	685.1	692.7	691.9
10°	682.1	683.6	679.8	687.4	685.9
12.5°	673.0	675.3	673.0	679.8	678.3
15°	661.7	663.9	663.2	670.7	670.0
17.5°	648.1	652.6	651.8	658.6	657.1
20°	632.9	637.5	639.0	645.8	646.5
22.5°	617.1	621.6	623.9	632.9	632.2
25°	597.4	605.0	607.2	617.1	617.1
27.5°	578.5	586.8	591.3	599.7	600.4
30°	558.1	567.9	573.9	583.0	583.0
32.5°	535.4	546.7	555.0	564.9	567.1
35°	514.2	526.3	536.1	547.5	550.5
37.5°	491.5	505.1	516.5	529.3	531.6
40°	468.8	482.4	497.6	510.4	513.5
42.5°	443.9	461.3	477.2	491.5	496.1
45°	420.4	438.6	457.5	471.9	477.9
47.5°	395.5	415.9	437.1	453.0	457.5
50°	371.3	392.5	415.9	433.3	438.6
52.5°	345.6	368.3	394.7	412.9	419.7
55°	320.6	345.6	372.8	393.2	399.3
57.5°	296.4	322.1	351.6	372.0	378.9
60°	270.7	297.9	328.9	350.1	358.4
62.5°	246.5	274.5	307.8	328.9	336.5
65°	221.6	251.1	284.3	307.0	314.6
67.5°	196.6	227.6	260.9	285.8	291.9
70°	170.1	202.7	239.0	263.2	270.7
72.5°	145.9	178.5	216.3	241.2	248.8
75°	120.2	155.8	193.6	218.5	227.6
77.5°	98.3	133.8	171.7	198.1	204.9
80°	74.9	111.9	151.2	176.9	184.5
82.5°	54.4	92.3	132.3	158.0	165.6
85°	37.1	74.9	114.9	140.7	148.2
87.5°	22.7	60.5	99.1	124.8	132.3
90°	10.4	53.1	99.0	127.1	135.7
92.5°	26.1	62.0	103.2	129.9	135.6
95°	41.7	75.2	116.8	142.5	150.1
97.5°	62.6	92.6	131.5	157.0	164.1
100°	83.9	111.5	149.1	172.7	181.4
102.5°	108.6	131.5	169.5	192.3	199.4
105°	133.5	152.8	190.4	211.6	219.5
107.5°	162.2	178.7	212.0	234.1	240.3
110°	188.6	203.4	234.8	256.8	261.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	217.0	228.1	256.9	278.7	285.5
115°	244.6	255.4	281.5	300.1	305.7
117.5°	273.5	280.1	304.6	322.8	327.1
120°	299.3	306.5	328.7	345.5	349.6
122.5°	327.1	330.9	353.2	368.1	371.7
125°	354.7	356.4	377.2	390.8	393.8
127.5°	380.8	383.4	401.1	412.8	415.9
130°	406.8	410.6	424.0	436.1	436.6
132.5°	432.1	436.6	446.9	457.7	460.1
135°	458.7	461.4	469.2	480.5	483.2
137.5°	483.1	485.2	492.1	501.4	503.5
140°	507.9	510.7	513.5	524.3	524.1
142.5°	531.1	533.2	534.3	543.5	544.5
145°	555.5	555.8	557.5	562.9	563.8
147.5°	575.6	577.9	579.6	581.9	581.5
150°	597.7	598.9	600.0	600.0	598.1
152.5°	615.9	617.6	618.1	619.3	616.4
155°	635.1	635.1	635.7	638.0	634.0
157.5°	651.6	651.0	651.6	653.8	650.4
160°	666.9	665.7	665.7	668.6	666.3
162.5°	680.5	678.8	679.3	682.2	678.2
165°	691.8	690.1	690.1	693.5	689.5
167.5°	701.4	699.2	699.7	703.1	699.7
170°	709.4	707.1	707.1	711.1	707.1
172.5°	715.6	713.3	713.3	716.7	712.8
175°	719.6	717.3	717.3	720.7	716.7
177.5°	721.8	719.6	719.6	723.0	719.0
180°	721.3	721.3	721.3	721.3	721.3

(END OF REPORT)