

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: P1010669

Luminaire Tested: S123DIP-B560D585UB2750-4F0-XX-W2A-D_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1010669
REPORT IS A COMBINATION OF REPORTS P990113 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B560D585UB2750-4F0-XX-W2A-D_2700K
Description: Define 3 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

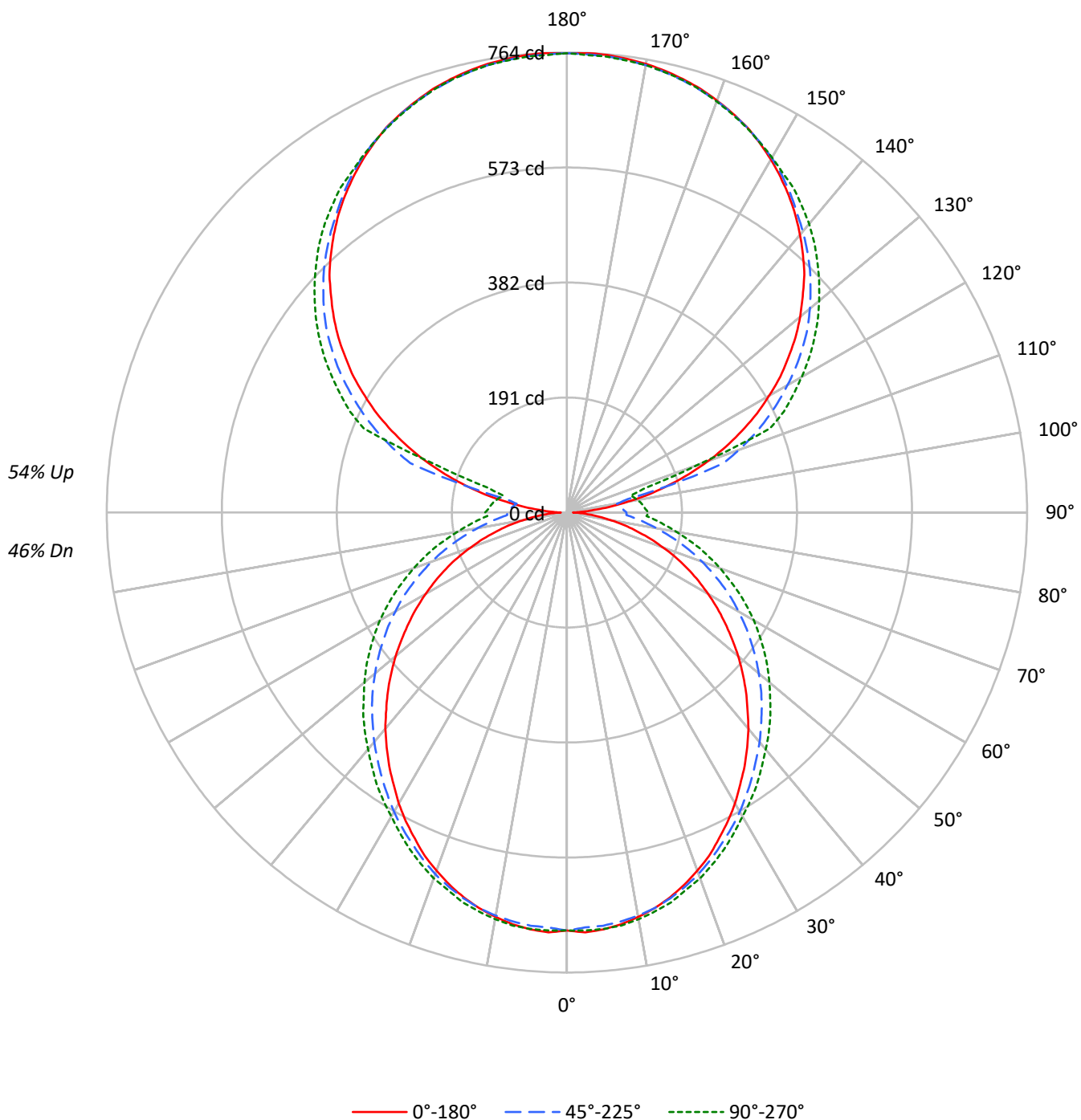
Lumens per Lamp: N/A
Luminaire Lumens: 4660.0 lumens
Efficiency: N/A
Efficacy: 118.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 39.4
Input Voltage (V): 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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	106	106	106	106	97	97	97	97	81	81	81	66	66	66	52	52	52	46	46	46
1	96	91	87	83	88	84	80	77	70	67	64	57	55	53	45	43	42	37	37	37
2	87	79	73	67	79	73	67	62	60	56	53	49	46	44	39	37	35	30	30	30
3	79	69	62	55	72	64	57	51	53	48	44	43	39	36	34	31	29	25	25	25
4	72	61	53	47	66	56	49	43	47	41	37	38	34	31	30	27	25	21	21	21
5	66	54	46	40	60	50	43	37	42	36	32	34	30	27	27	24	22	18	18	18
6	61	48	40	34	55	45	37	32	38	32	28	31	26	23	25	21	19	16	16	16
7	56	44	36	30	51	40	33	28	34	28	24	28	24	20	22	19	17	14	14	14
8	52	40	32	26	48	37	30	25	31	25	21	26	21	18	21	17	15	12	12	12
9	48	36	28	23	44	33	27	22	28	23	19	23	19	16	19	16	13	11	11	11
10	45	33	26	21	41	31	24	20	26	21	17	22	18	15	18	14	12	10	10	10

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	1.4
10°-20°	187.7	4.0
20°-30°	280.7	6.0
30°-40°	335.2	7.2
40°-50°	350.7	7.5
50°-60°	329.1	7.1
60°-70°	274.9	5.9
70°-80°	196.5	4.2
80°-90°	118.5	2.5
90°-100°	100.4	2.2
100°-110°	184.1	4.0
110°-120°	354.8	7.6
120°-130°	425.2	9.1
130°-140°	441.4	9.5
140°-150°	406.1	8.7
150°-160°	326.0	7.0
160°-170°	210.4	4.5
170°-180°	72.5	1.6
0°-30°	534.3	11.5
0°-40°	869.5	18.7
0°-60°	1549.3	33.2
0°-90°	2139.2	45.9
90°-120°	639.2	13.7
90°-150°	1911.9	41.0
90°-180°	2521.0	54.1
0°-180°	4660.0	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	9
95°	43	49	92	120	127	48
105°	175	199	181	102	110	185
115°	321	333	365	389	398	317
125°	449	453	478	495	501	401
135°	558	560	571	586	588	429
145°	642	646	647	654	657	402
155°	707	706	706	709	706	326
165°	745	744	743	748	744	211
175°	763	760	760	764	760	73
180°	763	763	763	763	763	

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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°	22.1	51.2	94.1	123.1	130.5
95°	42.9	49.1	92.5	119.8	127.4
97.5°	70.5	81.8	88.4	115.7	123.8
100°	102.6	138.1	84.5	110.9	119.1
102.5°	139.2	167.7	103.2	105.6	114.4
105°	174.9	199.3	180.8	101.7	109.6
107.5°	212.2	233.2	272.7	205.8	138.3
110°	249.3	267.5	304.0	305.0	229.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	285.6	300.2	335.2	359.2	364.9
115°	320.6	333.1	365.4	389.2	397.5
117.5°	355.7	365.7	394.2	417.0	423.5
120°	387.2	396.1	422.8	444.8	450.0
122.5°	420.1	425.6	451.3	470.8	476.6
125°	448.9	453.4	477.6	494.6	501.0
127.5°	478.3	482.1	503.8	520.6	524.8
130°	505.5	509.3	526.6	543.3	546.7
132.5°	530.8	535.4	548.5	564.3	567.9
135°	557.5	560.2	570.7	586.0	588.1
137.5°	580.1	584.0	590.3	605.2	607.9
140°	602.1	605.5	609.4	623.1	625.6
142.5°	623.1	625.7	627.4	638.9	641.0
145°	642.3	645.5	646.6	653.8	656.9
147.5°	660.2	663.1	664.2	667.6	667.8
150°	677.2	678.9	680.1	681.2	681.0
152.5°	692.5	693.1	693.7	695.9	693.1
155°	706.7	705.6	706.1	709.0	705.6
157.5°	718.0	718.0	717.5	720.9	716.3
160°	728.2	727.7	727.1	730.5	726.5
162.5°	737.9	736.2	735.6	739.6	736.2
165°	745.2	743.5	743.0	747.5	743.5
167.5°	751.5	749.2	749.2	753.7	749.2
170°	756.6	754.3	754.3	758.8	754.3
172.5°	760.0	757.1	757.7	762.2	757.1
175°	762.8	760.0	760.5	764.5	760.0
177.5°	763.9	761.1	761.7	766.2	760.5
180°	762.8	762.8	762.8	762.8	762.8

(END OF REPORT)