

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: P1011708

Luminaire Tested: S123DIP-B560D1025UB40-4F0-XX-W2A-D4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011708
REPORT IS A COMBINATION OF REPORTS P989966 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B560D1025UB40-4F0-XX-W2A-D4
Description: Define 3 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

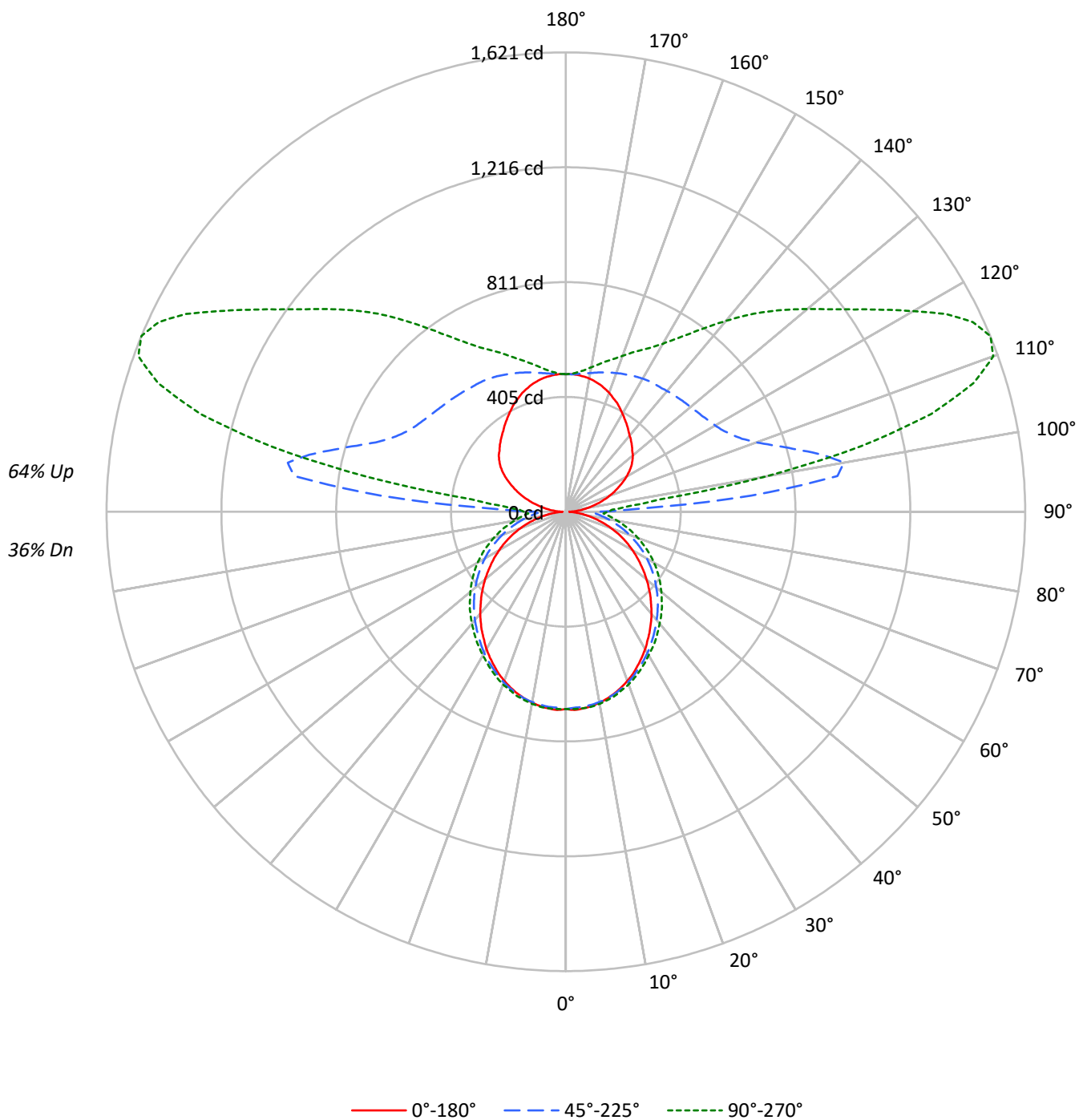
Lumens per Lamp: N/A
Luminaire Lumens: 6002.5 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 52.5
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	104	104	104	104	94	94	94	94	75	75	75	59	59	59	43	43	43
1	94	89	85	81	85	81	77	74	65	62	60	50	49	47	37	36	35
2	85	77	71	66	77	70	65	60	56	53	49	44	41	39	32	30	29
3	77	68	60	54	70	61	55	50	49	45	41	38	35	32	28	26	24
4	71	60	52	46	64	54	47	42	44	39	35	34	30	28	25	23	21
5	65	53	45	39	58	48	41	36	39	34	30	30	27	24	22	20	18
6	59	47	39	34	53	43	36	31	35	30	26	27	24	21	20	18	16
7	55	43	35	29	49	39	32	27	32	26	22	25	21	18	18	16	14
8	51	39	31	26	46	35	28	24	29	24	20	23	19	16	17	14	12
9	47	35	28	23	43	32	25	21	26	21	18	21	17	14	16	13	11
10	44	32	25	20	40	29	23	19	24	19	16	19	15	13	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7495	7495	7495
5°	7515	7275	7269
10°	7444	7078	7023
15°	7347	6860	6764
20°	7206	6618	6484
25°	7034	6344	6195
30°	6858	6097	5905
35°	6661	5837	5668
40°	6471	5601	5418
45°	6263	5371	5212
50°	6056	5144	4988
55°	5827	4910	4783
60°	5602	4671	4572
65°	5371	4417	4325
70°	5027	4132	4071
75°	4588	3807	3809
80°	4077	3477	3510
85°	3573	3211	3296

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6263 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.0	1.1
10°-20°	188.3	3.1
20°-30°	281.6	4.7
30°-40°	336.2	5.6
40°-50°	351.8	5.9
50°-60°	330.1	5.5
60°-70°	275.7	4.6
70°-80°	197.1	3.3
80°-90°	120.0	2.0
90°-100°	349.5	5.8
100°-110°	825.2	13.7
110°-120°	788.0	13.1
120°-130°	619.3	10.3
130°-140°	481.8	8.0
140°-150°	354.5	5.9
150°-160°	246.0	4.1
160°-170°	144.5	2.4
170°-180°	47.0	0.8
0°-30°	535.9	8.9
0°-40°	872.1	14.5
0°-60°	1553.9	25.9
0°-90°	2146.8	35.8
90°-120°	1962.7	32.7
90°-150°	3418.3	56.9
90°-180°	3856.0	64.2
0°-180°	6002.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	696	696	696	696	696	
5°	697	696	691	697	696	66
15°	664	666	665	673	672	187
25°	599	607	609	619	619	276
35°	516	528	538	549	552	323
45°	422	440	459	473	479	325
55°	322	347	374	394	400	288
65°	222	252	285	308	316	220
75°	121	156	194	219	228	129
85°	37	75	115	141	149	38
90°	12	59	110	139	148	10
95°	42	146	658	269	220	42
105°	120	193	847	1460	1335	127
115°	205	264	644	1383	1585	203
125°	282	333	588	1062	1244	251
135°	330	392	565	864	998	255
145°	375	429	549	696	769	235
155°	426	459	532	604	630	196
165°	465	478	509	540	549	131
175°	484	485	488	495	494	46
180°	485	485	485	485	485	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	696.3	696.3	696.3	696.3	696.3
2.5°	700.1	697.8	691.7	697.8	697.0
5°	697.0	695.5	691.0	697.0	696.3
7.5°	691.7	691.7	687.2	694.7	694.0
10°	684.1	685.6	681.9	689.4	687.9
12.5°	675.0	677.3	675.0	681.9	680.3
15°	663.7	665.9	665.2	672.8	672.0
17.5°	650.0	654.6	653.8	660.6	659.1
20°	634.8	639.4	640.9	647.7	648.5
22.5°	618.9	623.5	625.7	634.8	634.1
25°	599.2	606.8	609.0	618.9	618.9
27.5°	580.2	588.6	593.1	601.5	602.2
30°	559.7	569.6	575.7	584.8	584.8
32.5°	537.0	548.4	556.7	566.6	568.8
35°	515.8	527.9	537.7	549.1	552.2
37.5°	493.0	506.7	518.0	530.9	533.2
40°	470.2	483.9	499.1	512.0	515.0
42.5°	445.2	462.7	478.6	493.0	497.5
45°	421.7	439.9	458.9	473.3	479.3
47.5°	396.7	417.2	438.4	454.3	458.9
50°	372.4	393.6	417.2	434.6	439.9
52.5°	346.6	369.4	395.9	414.1	420.9
55°	321.6	346.6	373.9	394.4	400.5
57.5°	297.3	323.1	352.7	373.2	380.0
60°	271.5	298.8	329.9	351.2	359.5
62.5°	247.3	275.3	308.7	329.9	337.5
65°	222.2	251.8	285.2	307.9	315.5
67.5°	197.2	228.3	261.7	286.7	292.8
70°	170.7	203.3	239.7	263.9	271.5
72.5°	146.4	179.0	216.9	241.9	249.5
75°	120.6	156.2	194.2	219.2	228.3
77.5°	98.6	134.2	172.2	198.7	205.5
80°	75.1	112.3	151.7	177.5	185.1
82.5°	54.6	92.5	132.7	158.5	166.1
85°	37.2	75.1	115.3	141.1	148.7
87.5°	22.8	60.7	99.4	125.1	132.7
90°	11.9	58.8	110.3	139.0	147.6
92.5°	23.8	100.6	262.4	167.1	163.6
95°	41.7	146.5	657.8	268.6	220.2
97.5°	60.7	159.2	966.6	520.7	334.8
100°	79.5	168.2	996.5	982.2	711.7
102.5°	99.4	179.1	928.1	1280.0	1066.0
105°	120.1	192.8	846.9	1459.6	1334.8
107.5°	140.9	209.4	774.5	1535.4	1508.3
110°	163.8	226.6	714.7	1533.4	1605.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	185.4	244.6	672.9	1472.6	1621.3
115°	205.2	264.0	644.5	1383.4	1584.6
117.5°	225.9	281.6	623.2	1288.6	1511.2
120°	246.7	299.1	608.7	1198.4	1415.5
122.5°	265.4	316.6	598.0	1126.6	1326.5
125°	282.3	333.0	588.3	1062.1	1244.3
127.5°	296.1	349.8	581.6	1008.4	1173.0
130°	308.9	365.6	574.8	958.7	1112.5
132.5°	317.9	379.8	570.0	911.8	1054.8
135°	329.7	392.4	565.3	864.4	998.3
137.5°	340.5	403.2	560.3	818.6	939.8
140°	350.6	413.0	556.2	774.4	879.0
142.5°	362.4	421.0	551.2	733.1	821.4
145°	375.2	428.9	549.3	696.4	768.7
147.5°	387.1	437.2	546.3	667.0	723.6
150°	399.9	444.2	542.4	642.2	684.4
152.5°	412.7	451.6	537.5	622.5	653.4
155°	425.5	458.9	531.6	604.3	629.9
157.5°	435.3	465.3	526.7	586.6	607.3
160°	447.1	470.7	520.8	570.4	585.6
162.5°	455.9	474.6	514.9	555.2	566.0
165°	464.8	478.0	509.0	540.0	549.3
167.5°	471.7	481.0	503.1	526.7	532.6
170°	477.6	482.4	497.2	514.9	517.8
172.5°	481.5	483.9	492.3	504.6	504.1
175°	484.4	484.9	488.4	495.2	494.3
177.5°	486.4	485.4	485.4	489.3	487.4
180°	485.4	485.4	485.4	485.4	485.4

(END OF REPORT)