

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: P1011707

Luminaire Tested: S123DIP-B560D1025UB40-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011707
REPORT IS A COMBINATION OF REPORTS P989965 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-D1
Description: Define 3 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

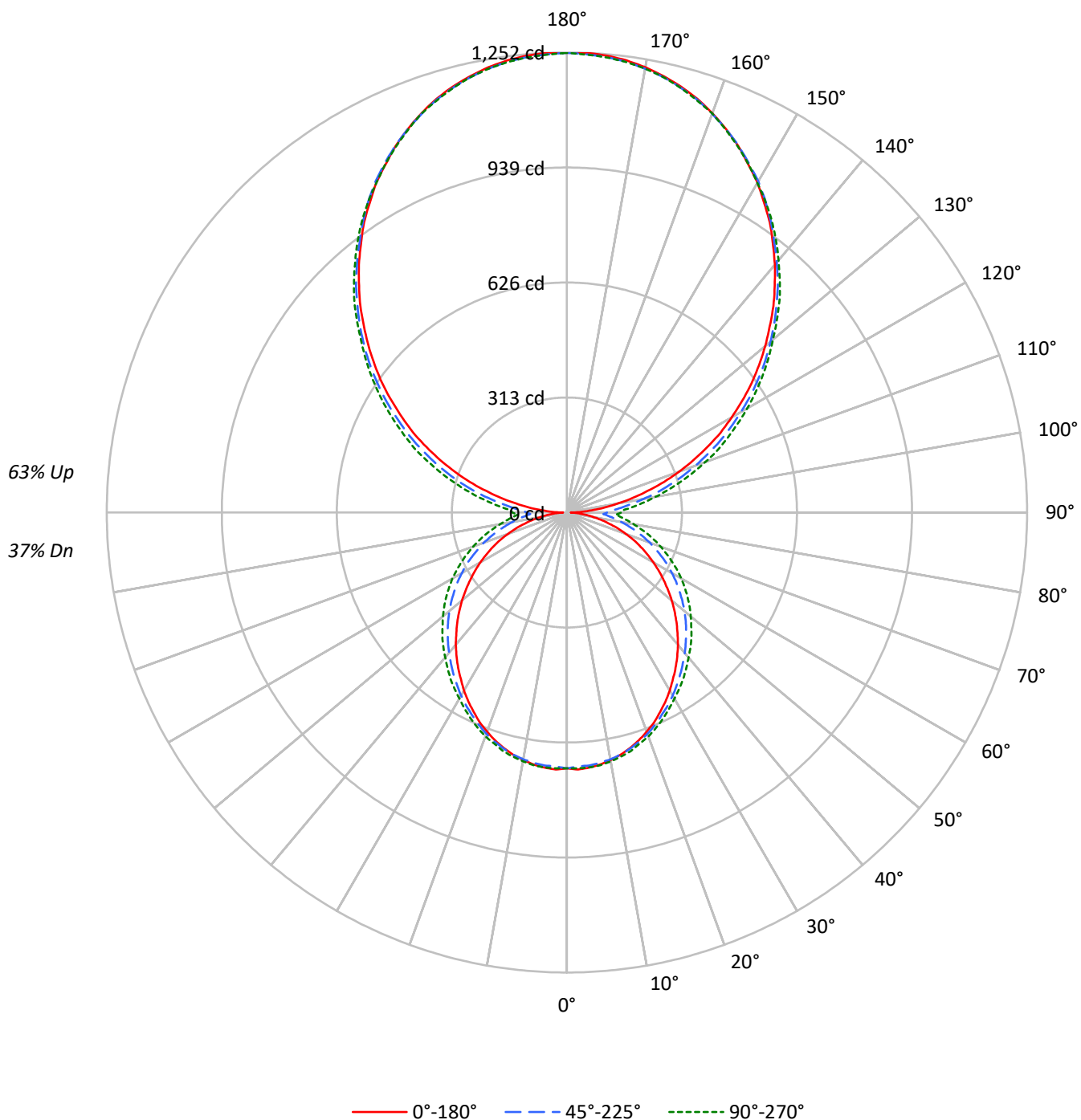
Lumens per Lamp: N/A
Luminaire Lumens: 5809.1 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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
RCR																	
0	104	104	104	104	94	94	94	94	76	76	76		59	59	59		44
1	94	89	85	82	85	81	78	74	65	63	61		51	49	48		38
2	85	78	71	66	77	70	65	60	57	53	50		44	42	39		33
3	78	68	61	55	70	62	55	50	50	45	41		39	36	33		29
4	71	60	52	46	64	54	48	42	44	39	35		35	31	28		26
5	65	53	45	39	58	48	41	36	39	34	30		31	27	24		23
6	60	48	39	34	54	43	36	31	35	30	26		28	24	21		21
7	55	43	35	29	50	39	32	27	32	27	23		25	21	18		19
8	51	39	31	26	46	35	29	24	29	24	20		23	19	16		17
9	47	35	28	23	43	32	26	21	26	21	18		21	17	15		16
10	44	32	25	20	40	30	23	19	24	19	16		19	16	13		15

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	3.2
20°-30°	281.6	4.8
30°-40°	336.2	5.8
40°-50°	351.8	6.1
50°-60°	330.1	5.7
60°-70°	275.7	4.7
70°-80°	197.1	3.4
80°-90°	120.0	2.1
90°-100°	154.2	2.7
100°-110°	297.9	5.1
110°-120°	451.1	7.8
120°-130°	566.6	9.8
130°-140°	622.9	10.7
140°-150°	605.2	10.4
150°-160°	507.9	8.7
160°-170°	338.1	5.8
170°-180°	118.4	2.0
0°-30°	535.9	9.2
0°-40°	872.1	15.0
0°-60°	1553.9	26.8
0°-90°	2146.7	37.0
90°-120°	903.3	15.6
90°-150°	2697.9	46.4
90°-180°	3662.0	63.0
0°-180°	5809.1	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°	11	58	109	139	149	11
95°	66	103	148	175	183	70
105°	227	247	289	310	319	243
115°	422	434	459	478	483	417
125°	614	616	636	648	650	547
135°	795	800	807	817	819	612
145°	963	964	967	972	971	601
155°	1102	1102	1103	1107	1100	507
165°	1200	1197	1197	1203	1196	338
175°	1248	1244	1244	1250	1243	119
180°	1251	1251	1251	1251	1251	

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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°	10.9	57.8	109.3	139.0	148.6
92.5°	38.6	77.1	120.9	148.9	153.8
95°	66.3	102.8	147.8	175.3	182.9
97.5°	102.9	135.1	176.6	204.3	211.0
100°	140.5	170.6	210.5	235.4	245.0
102.5°	184.0	208.1	249.1	273.4	280.0
105°	227.2	247.4	288.8	310.0	318.8
107.5°	277.5	294.4	329.4	352.9	358.7
110°	324.0	339.6	371.8	395.6	399.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	373.1	384.7	413.5	437.4	444.2
115°	421.5	433.5	458.8	478.0	483.1
117.5°	471.6	478.7	502.4	520.7	523.8
120°	517.0	526.7	546.9	563.3	566.6
122.5°	565.1	570.7	592.2	605.8	608.3
125°	613.6	616.5	636.5	648.5	649.9
127.5°	658.8	663.9	680.9	690.1	691.6
130°	704.0	711.0	723.3	733.8	731.4
132.5°	748.4	756.2	765.7	774.4	774.8
135°	794.6	799.8	807.1	816.9	818.6
137.5°	836.8	841.0	849.3	856.5	857.3
140°	880.3	885.3	888.4	898.9	895.8
142.5°	920.6	924.8	926.7	935.6	934.5
145°	962.9	964.1	967.0	972.1	971.2
147.5°	998.5	1002.4	1005.3	1007.6	1004.7
150°	1036.8	1038.8	1040.7	1040.7	1036.3
152.5°	1068.2	1071.2	1072.2	1074.1	1069.2
155°	1101.6	1101.6	1102.6	1106.6	1099.7
157.5°	1130.1	1129.2	1130.1	1134.1	1128.2
160°	1156.7	1154.7	1154.7	1159.6	1155.7
162.5°	1180.3	1177.3	1178.3	1183.2	1176.3
165°	1199.9	1197.0	1197.0	1202.9	1196.0
167.5°	1216.6	1212.7	1213.7	1219.6	1213.7
170°	1230.4	1226.5	1226.5	1233.3	1226.5
172.5°	1241.2	1237.3	1237.3	1243.2	1236.3
175°	1248.1	1244.1	1244.1	1250.0	1243.2
177.5°	1252.0	1248.1	1248.1	1254.0	1247.1
180°	1251.0	1251.0	1251.0	1251.0	1251.0

(END OF REPORT)