

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: P1010627

Luminaire Tested: S123DIP-B560D1025UB2750-4F0-XX-W2A-D_4000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1010627
REPORT IS A COMBINATION OF REPORTS P989936 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B560D1025UB2750-4F0-XX-W2A-D_4000K
Description: Define 3 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

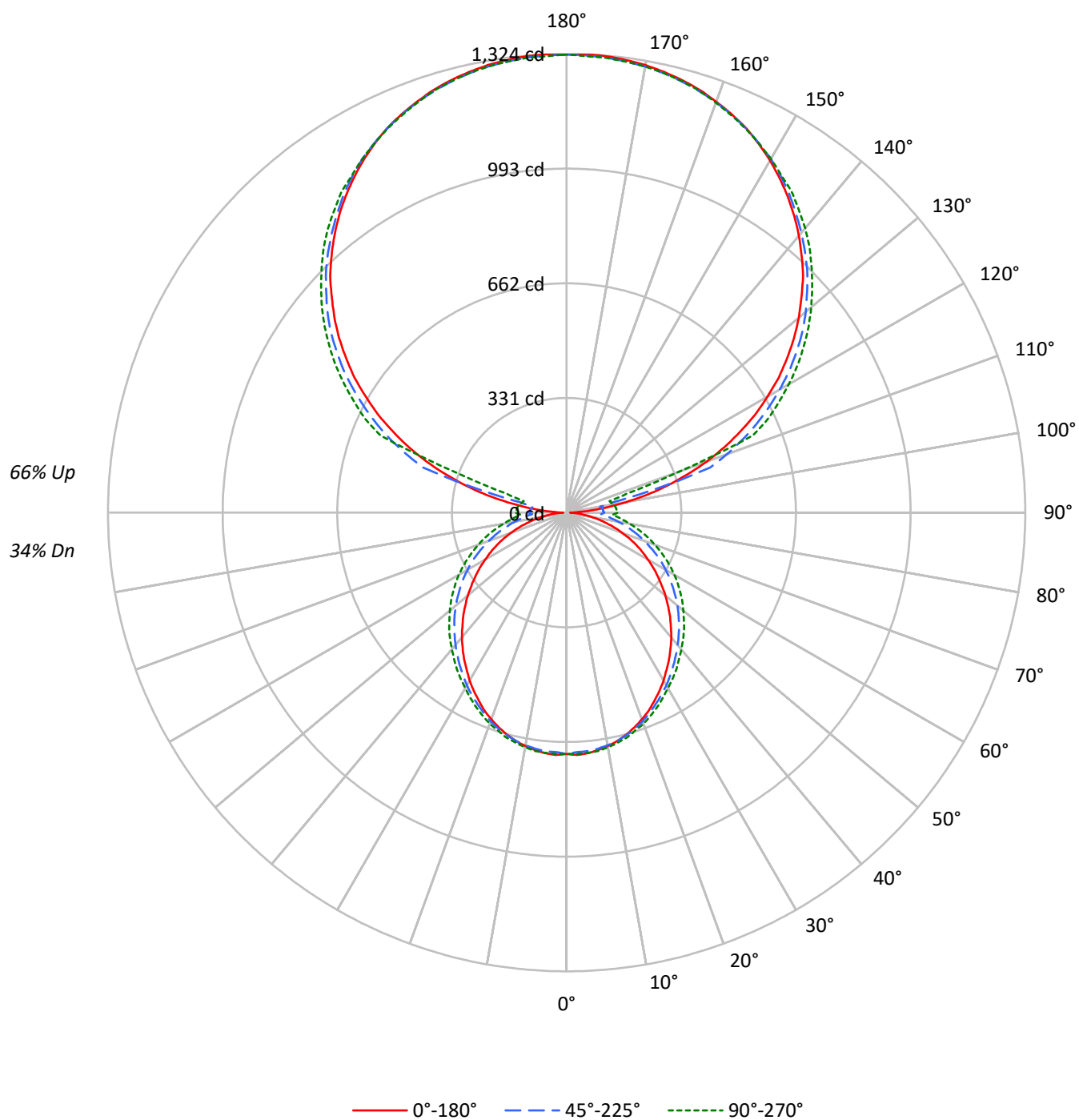
Lumens per Lamp: N/A
Luminaire Lumens: 6374.0 lumens
Efficiency: N/A
Efficacy: 121.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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				20
RC	80				70				50				30				10				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	103	103	103	103	93	93	93	93	74	74	74	57	57	57	41	41	41	34			
1	93	89	85	81	84	80	77	74	64	62	59	49	47	46	35	34	33	27			
2	85	77	71	66	76	70	64	60	56	52	49	43	40	38	31	29	27	22			
3	77	68	60	54	69	61	55	50	49	44	40	37	34	32	27	25	23	18			
4	70	60	52	46	63	54	47	42	43	38	34	33	30	27	24	22	20	15			
5	64	53	45	39	58	48	41	36	38	33	29	30	26	23	21	19	17	13			
6	59	47	39	33	53	43	36	31	34	29	25	27	23	20	19	17	15	12			
7	55	42	35	29	49	39	32	27	31	26	22	24	20	18	18	15	13	10			
8	51	38	31	26	45	35	28	23	28	23	20	22	18	16	16	14	12	9			
9	47	35	28	23	42	32	25	21	26	21	17	20	17	14	15	12	10	8			
10	44	32	25	20	39	29	23	19	24	19	15	19	15	12	14	11	9	7			

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	1.0
10°-20°	188.3	3.0
20°-30°	281.6	4.4
30°-40°	336.2	5.3
40°-50°	351.8	5.5
50°-60°	330.1	5.2
60°-70°	275.7	4.3
70°-80°	197.1	3.1
80°-90°	120.0	1.9
90°-100°	120.3	1.9
100°-110°	279.7	4.4
110°-120°	588.7	9.2
120°-130°	722.0	11.3
130°-140°	758.5	11.9
140°-150°	702.6	11.0
150°-160°	565.1	8.9
160°-170°	364.7	5.7
170°-180°	125.7	2.0
0°-30°	535.9	8.4
0°-40°	872.1	13.7
0°-60°	1553.9	24.4
0°-90°	2146.7	33.7
90°-120°	988.7	15.5
90°-150°	3171.8	49.8
90°-180°	4227.0	66.3
0°-180°	6374.0	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	10
95°	68	58	106	136	144	78
105°	299	328	272	119	128	317
115°	553	568	604	632	642	546
125°	776	784	810	828	835	694
135°	965	970	983	999	1000	743
145°	1113	1119	1121	1129	1132	697
155°	1225	1223	1224	1229	1223	564
165°	1292	1289	1288	1296	1289	365
175°	1322	1318	1318	1325	1318	126
180°	1322	1322	1322	1322	1322	

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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°	31.7	58.4	105.1	137.1	144.9
95°	68.2	57.5	105.6	135.9	143.5
97.5°	116.7	116.4	101.9	132.6	141.2
100°	172.8	216.8	98.4	128.3	136.9
102.5°	237.0	270.9	134.1	123.0	132.5
105°	298.9	327.9	272.1	119.4	128.1
107.5°	363.9	388.6	434.5	303.7	181.8
110°	429.0	450.5	491.6	479.0	344.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	491.9	509.4	549.0	576.8	581.7
115°	553.0	568.0	604.1	632.1	642.2
117.5°	613.9	626.9	657.5	683.6	690.6
120°	669.1	681.7	709.8	735.0	740.3
122.5°	726.1	734.6	762.0	783.5	789.9
125°	776.5	784.3	810.3	828.1	835.4
127.5°	827.6	834.6	858.5	876.6	880.0
130°	874.7	881.8	900.9	919.2	921.8
132.5°	919.1	927.0	941.3	958.8	961.3
135°	965.3	970.5	982.7	999.4	1000.1
137.5°	1004.6	1011.7	1019.0	1036.0	1037.8
140°	1043.2	1049.1	1054.2	1069.5	1071.4
142.5°	1079.5	1084.6	1087.6	1100.4	1101.3
145°	1112.9	1119.0	1121.0	1129.0	1132.0
147.5°	1144.5	1149.5	1151.4	1155.7	1153.8
150°	1174.0	1177.0	1178.9	1180.9	1179.5
152.5°	1200.5	1201.5	1202.5	1206.4	1201.5
155°	1225.1	1223.1	1224.1	1229.0	1223.1
157.5°	1244.8	1244.8	1243.8	1249.7	1241.8
160°	1262.4	1261.5	1260.5	1266.4	1259.5
162.5°	1279.1	1276.2	1275.2	1282.1	1276.2
165°	1291.9	1289.0	1288.0	1295.8	1289.0
167.5°	1302.7	1298.8	1298.8	1306.7	1298.8
170°	1311.6	1307.6	1307.6	1315.5	1307.6
172.5°	1317.5	1312.5	1313.5	1321.4	1312.5
175°	1322.4	1317.5	1318.4	1325.3	1317.5
177.5°	1324.3	1319.4	1320.4	1328.3	1318.4
180°	1322.4	1322.4	1322.4	1322.4	1322.4

(END OF REPORT)