

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: P1011717

Luminaire Tested: S123DIP-B560D1025UB50-4F0-XX-W2A-D4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011717
REPORT IS A COMBINATION OF REPORTS P989975 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B560D1025UB50-4F0-XX-W2A-D4
Description: Define 3 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

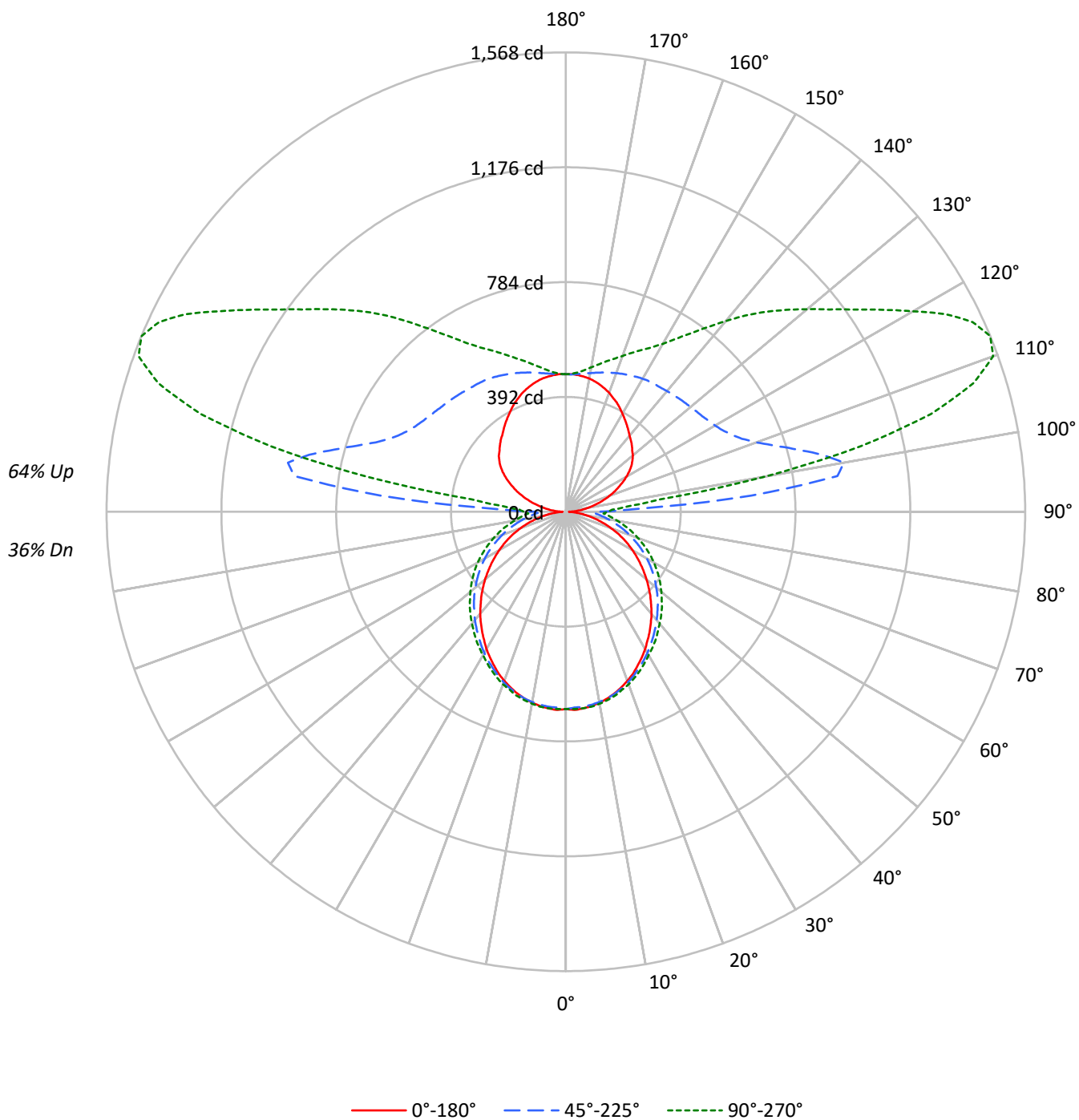
Lumens per Lamp: N/A
Luminaire Lumens: 5804.2 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 52.5
Input Voltage (V):
Input Current (A_{in}): 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°	7248	7248	7248
5°	7268	7035	7030
10°	7200	6845	6793
15°	7104	6634	6541
20°	6969	6400	6270
25°	6803	6136	5991
30°	6632	5896	5710
35°	6442	5646	5482
40°	6259	5416	5239
45°	6056	5195	5041
50°	5856	4974	4824
55°	5635	4748	4626
60°	5419	4518	4422
65°	5195	4272	4183
70°	4859	3996	3937
75°	4435	3681	3684
80°	3941	3363	3395
85°	3448	3105	3187

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6056 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.9	1.1
10°-20°	182.1	3.1
20°-30°	272.3	4.7
30°-40°	325.1	5.6
40°-50°	340.2	5.9
50°-60°	319.2	5.5
60°-70°	266.6	4.6
70°-80°	190.7	3.3
80°-90°	116.1	2.0
90°-100°	338.0	5.8
100°-110°	797.9	13.7
110°-120°	761.9	13.1
120°-130°	598.8	10.3
130°-140°	465.8	8.0
140°-150°	342.8	5.9
150°-160°	237.8	4.1
160°-170°	139.7	2.4
170°-180°	45.4	0.8
0°-30°	518.3	8.9
0°-40°	843.4	14.5
0°-60°	1502.8	25.9
0°-90°	2076.2	35.8
90°-120°	1897.8	32.7
90°-150°	3305.1	56.9
90°-180°	3728.0	64.2
0°-180°	5804.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	673	673	673	673	673	
5°	674	673	668	674	673	64
15°	642	644	643	651	650	181
25°	580	587	589	598	598	267
35°	499	510	520	531	534	312
45°	408	425	444	458	464	314
55°	311	335	362	381	387	278
65°	215	244	276	298	305	212
75°	117	151	188	212	221	125
85°	36	73	112	136	144	37
90°	11	57	107	134	143	9
95°	40	142	636	260	213	41
105°	116	186	819	1411	1291	123
115°	198	255	623	1338	1532	197
125°	273	322	569	1027	1203	243
135°	319	379	546	836	965	246
145°	363	415	531	673	743	227
155°	411	444	514	584	609	189
165°	449	462	492	522	531	127
175°	468	469	472	479	478	44
180°	469	469	469	469	469	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	673.4	673.4	673.4	673.4	673.4
2.5°	677.0	674.8	669.0	674.8	674.1
5°	674.1	672.6	668.2	674.1	673.4
7.5°	669.0	669.0	664.6	671.9	671.2
10°	661.6	663.1	659.4	666.8	665.3
12.5°	652.8	655.0	652.8	659.4	658.0
15°	641.8	644.0	643.3	650.6	649.9
17.5°	628.6	633.0	632.3	638.9	637.4
20°	613.9	618.3	619.8	626.4	627.1
22.5°	598.5	602.9	605.1	613.9	613.2
25°	579.5	586.8	589.0	598.5	598.5
27.5°	561.1	569.2	573.6	581.7	582.4
30°	541.3	550.9	556.7	565.5	565.5
32.5°	519.3	530.3	538.4	547.9	550.1
35°	498.8	510.5	520.1	531.1	534.0
37.5°	476.8	490.0	501.0	513.5	515.7
40°	454.8	468.0	482.6	495.1	498.0
42.5°	430.6	447.4	462.8	476.8	481.2
45°	407.8	425.4	443.8	457.7	463.6
47.5°	383.6	403.4	424.0	439.4	443.8
50°	360.1	380.7	403.4	420.3	425.4
52.5°	335.2	357.2	382.9	400.5	407.1
55°	311.0	335.2	361.6	381.4	387.3
57.5°	287.5	312.5	341.1	360.9	367.5
60°	262.6	289.0	319.1	339.6	347.7
62.5°	239.1	266.3	298.5	319.1	326.4
65°	214.9	243.5	275.8	297.8	305.1
67.5°	190.7	220.8	253.1	277.3	283.1
70°	165.0	196.6	231.8	255.3	262.6
72.5°	141.6	173.1	209.8	234.0	241.3
75°	116.6	151.1	187.8	212.0	220.8
77.5°	95.4	129.8	166.5	192.2	198.8
80°	72.6	108.6	146.7	171.6	179.0
82.5°	52.8	89.5	128.4	153.3	160.6
85°	35.9	72.6	111.5	136.4	143.8
87.5°	22.0	58.7	96.1	121.0	128.4
90°	11.4	57.0	106.7	134.4	142.8
92.5°	23.1	97.4	253.7	161.6	158.2
95°	40.4	141.7	636.0	259.8	212.9
97.5°	58.6	153.9	934.7	503.4	323.7
100°	76.9	162.6	963.5	949.6	688.1
102.5°	96.2	173.2	897.4	1237.6	1030.7
105°	116.1	186.4	818.9	1411.4	1290.7
107.5°	136.2	202.4	748.9	1484.6	1458.4
110°	158.3	219.0	691.1	1482.6	1552.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	179.2	236.6	650.5	1423.8	1567.7
115°	198.5	255.2	623.2	1337.7	1532.1
117.5°	218.4	272.2	602.6	1245.8	1461.2
120°	238.5	289.2	588.5	1158.8	1368.7
122.5°	256.6	306.0	578.1	1089.3	1282.5
125°	273.0	321.9	568.8	1027.0	1203.1
127.5°	286.3	338.3	562.3	975.0	1134.1
130°	298.6	353.5	555.7	927.0	1075.8
132.5°	307.4	367.2	551.2	881.7	1019.8
135°	318.8	379.3	546.5	835.8	965.3
137.5°	329.3	389.7	541.7	791.4	908.7
140°	338.9	399.2	537.8	748.8	849.9
142.5°	350.3	407.1	533.0	708.8	794.2
145°	362.7	414.7	531.1	673.4	743.2
147.5°	374.3	422.8	528.2	645.0	699.6
150°	386.7	429.4	524.4	620.8	661.8
152.5°	399.0	436.6	519.7	601.8	631.8
155°	411.4	443.6	514.0	584.3	609.0
157.5°	420.9	449.8	509.2	567.2	587.1
160°	432.3	455.0	503.5	551.5	566.2
162.5°	440.8	458.9	497.8	536.8	547.2
165°	449.4	462.2	492.1	522.0	531.1
167.5°	456.0	465.0	486.4	509.2	514.9
170°	461.7	466.4	480.7	497.8	500.7
172.5°	465.5	467.9	476.0	487.8	487.4
175°	468.4	468.8	472.2	478.8	477.9
177.5°	470.3	469.3	469.3	473.1	471.2
180°	469.3	469.3	469.3	469.3	469.3

(END OF REPORT)