

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: P1010673

Luminaire Tested: S123DIP-B560D585UB2750-4F0-XX-W2A-D_5000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1010673
REPORT IS A COMBINATION OF REPORTS P990117 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B560D585UB2750-4F0-XX-W2A-D_5000K
Description: Define 3 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

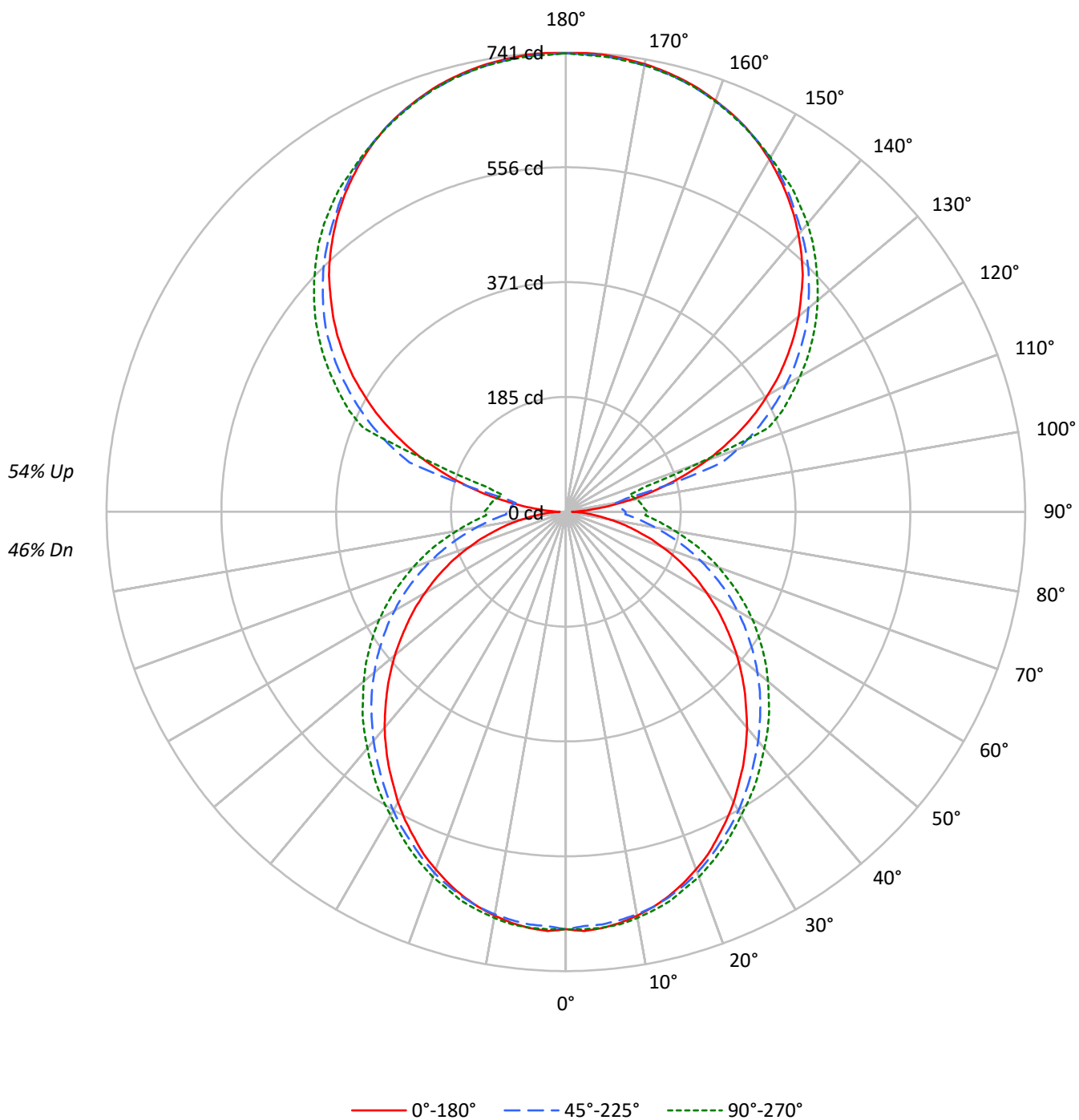
Lumens per Lamp: N/A
Luminaire Lumens: 4519.0 lumens
Efficiency: N/A
Efficacy: 114.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 39.4
Input Voltage (V):
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	106	106	106	106	97	97	97	97		81	81	81		66	66	66		52	52	52
1	96	91	87	83	88	84	80	77		70	67	65		57	55	53		45	43	42
2	87	79	73	67	79	73	67	62		60	56	53		49	46	44		39	37	35
3	79	69	62	55	72	64	57	51		53	48	44		43	39	36		34	31	29
4	72	61	53	47	66	56	49	43		47	41	37		38	34	31		30	27	25
5	66	54	46	40	60	50	43	37		42	36	32		34	30	27		27	24	22
6	61	48	40	34	55	45	37	32		38	32	28		31	26	23		25	21	19
7	56	44	36	30	51	40	33	28		34	28	24		28	24	20		22	19	17
8	52	40	32	26	48	37	30	25		31	25	21		26	21	18		21	17	15
9	48	36	28	23	44	33	27	22		28	23	19		23	19	16		19	16	13
10	45	33	26	21	41	31	24	20		26	21	17		22	18	15		18	14	12

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	1.4
10°-20°	182.1	4.0
20°-30°	272.3	6.0
30°-40°	325.1	7.2
40°-50°	340.2	7.5
50°-60°	319.2	7.1
60°-70°	266.6	5.9
70°-80°	190.7	4.2
80°-90°	114.9	2.5
90°-100°	97.4	2.2
100°-110°	178.5	3.9
110°-120°	344.0	7.6
120°-130°	412.2	9.1
130°-140°	428.0	9.5
140°-150°	393.7	8.7
150°-160°	316.1	7.0
160°-170°	204.0	4.5
170°-180°	70.3	1.6
0°-30°	518.3	11.5
0°-40°	843.4	18.7
0°-60°	1502.8	33.3
0°-90°	2075.0	45.9
90°-120°	619.8	13.7
90°-150°	1853.7	41.0
90°-180°	2444.0	54.1
0°-180°	4519.0	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°	10	52	96	123	132	9
95°	42	48	90	116	124	46
105°	170	193	175	99	106	180
115°	311	323	354	377	385	307
125°	435	440	463	480	486	389
135°	540	543	553	568	570	416
145°	623	626	627	634	637	390
155°	685	684	685	687	684	316
165°	722	721	720	725	721	204
175°	740	737	737	741	737	70
180°	740	740	740	740	740	

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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°	10.0	51.5	96.1	123.2	131.7
92.5°	21.4	49.6	91.3	119.3	126.5
95°	41.6	47.7	89.6	116.3	123.6
97.5°	68.3	79.3	85.8	112.2	120.1
100°	99.5	133.9	81.9	107.6	115.5
102.5°	135.0	162.7	100.1	102.5	110.9
105°	169.6	193.3	175.3	98.7	106.4
107.5°	205.6	226.0	264.3	199.5	134.1
110°	241.8	259.3	294.7	295.7	223.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	276.9	291.1	324.9	348.3	353.8
115°	310.8	322.9	354.3	377.4	385.4
117.5°	344.9	354.5	382.3	404.3	410.6
120°	375.4	384.1	409.9	431.2	436.3
122.5°	407.3	412.6	437.5	456.5	462.1
125°	435.1	439.5	463.0	479.5	485.7
127.5°	463.7	467.4	488.5	504.8	508.8
130°	490.1	493.8	510.6	526.8	530.1
132.5°	514.7	519.1	531.7	547.1	550.6
135°	540.5	543.0	553.3	568.1	570.2
137.5°	562.5	566.1	572.4	586.8	589.4
140°	583.6	586.9	590.8	604.0	606.6
142.5°	604.0	606.6	608.2	619.4	621.4
145°	622.7	625.8	626.9	633.9	636.8
147.5°	640.1	642.8	643.9	647.2	647.4
150°	656.6	658.2	659.3	660.4	660.3
152.5°	671.4	672.0	672.5	674.7	672.0
155°	685.1	684.0	684.6	687.3	684.0
157.5°	696.1	696.1	695.6	698.9	694.5
160°	706.0	705.5	704.9	708.2	704.4
162.5°	715.4	713.7	713.2	717.0	713.7
165°	722.5	720.9	720.3	724.7	720.9
167.5°	728.5	726.3	726.3	730.7	726.3
170°	733.5	731.3	731.3	735.7	731.3
172.5°	736.8	734.0	734.6	739.0	734.0
175°	739.5	736.8	737.3	741.2	736.8
177.5°	740.6	737.9	738.4	742.8	737.3
180°	739.5	739.5	739.5	739.5	739.5

(END OF REPORT)