

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: P1011830

Luminaire Tested: S123DIP-B560D585UB35-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011830
REPORT IS A COMBINATION OF REPORTS P990136 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B560D585UB35-4F0-XX-W2A-D1
Description: Define 3 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

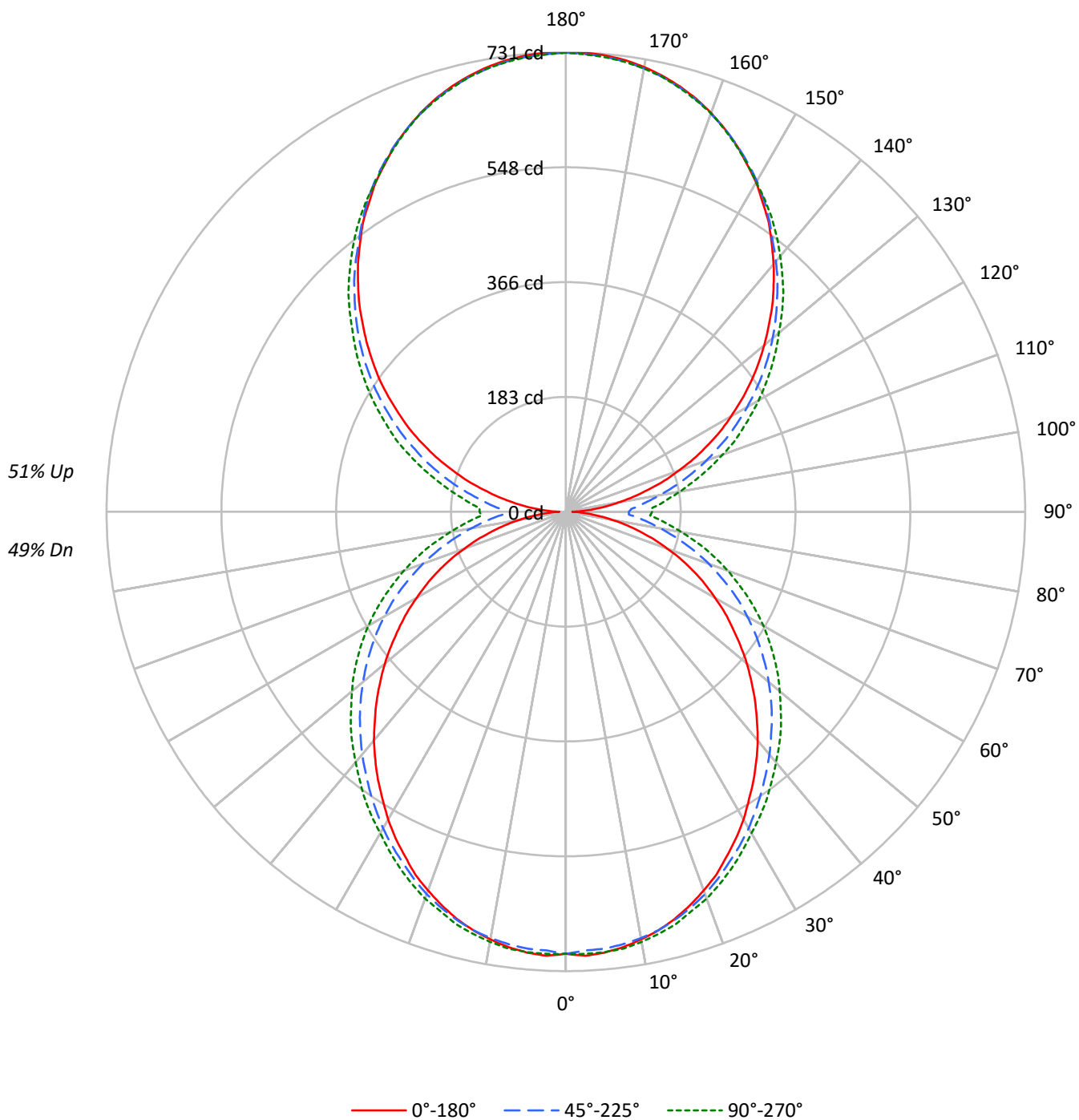
Lumens per Lamp: N/A
Luminaire Lumens: 4390.0 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56
1	97	92	88	84	89	85	81	78	71	68	66	59	57	55	47	46	45
2	88	80	73	68	80	73	68	63	62	57	54	51	48	45	41	39	37
3	80	70	62	56	73	64	57	52	54	49	45	45	41	38	36	33	31
4	73	61	53	47	67	57	49	44	48	42	38	40	35	32	32	29	26
5	67	55	46	40	61	50	43	37	43	37	32	36	31	28	29	26	23
6	61	49	40	34	56	45	38	32	38	33	28	32	28	24	26	23	20
7	57	44	36	30	52	41	33	28	35	29	25	29	25	21	24	20	18
8	52	40	32	27	48	37	30	25	32	26	22	27	22	19	22	18	16
9	49	36	29	24	45	34	27	22	29	23	20	24	20	17	20	17	14
10	46	33	26	21	42	31	24	20	27	21	18	23	18	15	19	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7571	7571	7571
5°	7592	7349	7343
10°	7521	7150	7096
15°	7422	6930	6833
20°	7280	6686	6550
25°	7106	6410	6259
30°	6929	6160	5965
35°	6728	5898	5726
40°	6539	5658	5474
45°	6327	5426	5266
50°	6117	5196	5039
55°	5887	4961	4832
60°	5660	4719	4619
65°	5427	4462	4371
70°	5077	4173	4113
75°	4633	3846	3847
80°	4121	3512	3546
85°	3602	3244	3329

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6327 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.7	1.5
10°-20°	190.2	4.3
20°-30°	284.5	6.5
30°-40°	339.6	7.7
40°-50°	355.4	8.1
50°-60°	333.5	7.6
60°-70°	278.5	6.3
70°-80°	199.2	4.5
80°-90°	120.1	2.7
90°-100°	121.5	2.8
100°-110°	197.1	4.5
110°-120°	278.9	6.4
120°-130°	339.7	7.7
130°-140°	367.7	8.4
140°-150°	354.3	8.1
150°-160°	296.6	6.8
160°-170°	197.5	4.5
170°-180°	69.1	1.6
0°-30°	541.4	12.3
0°-40°	881.0	20.1
0°-60°	1569.9	35.8
0°-90°	2167.6	49.4
90°-120°	597.5	13.6
90°-150°	1659.2	37.8
90°-180°	2222.0	50.6
0°-180°	4390.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	703	703	703	703	703	
5°	704	703	698	704	703	67
15°	670	673	672	680	679	189
25°	605	613	615	625	625	279
35°	521	533	543	555	558	326
45°	426	444	464	478	484	329
55°	325	350	378	398	405	291
65°	224	254	288	311	319	222
75°	122	158	196	221	231	130
85°	38	76	116	142	150	39
90°	11	54	100	129	138	10
95°	42	76	118	144	152	44
105°	135	155	193	214	222	144
115°	248	259	285	304	310	245
125°	359	361	382	396	399	321
135°	465	467	475	487	489	358
145°	563	563	565	570	571	351
155°	643	643	644	646	642	296
165°	701	699	699	702	698	198
175°	729	727	727	730	726	69
180°	731	731	731	731	731	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	703.4	703.4	703.4	703.4	703.4
2.5°	707.2	704.9	698.8	704.9	704.2
5°	704.2	702.6	698.0	704.2	703.4
7.5°	698.8	698.8	694.2	701.9	701.1
10°	691.1	692.7	688.8	696.5	695.0
12.5°	682.0	684.3	682.0	688.8	687.3
15°	670.5	672.8	672.0	679.7	678.9
17.5°	656.7	661.3	660.5	667.4	665.9
20°	641.3	645.9	647.5	654.4	655.1
22.5°	625.3	629.8	632.1	641.3	640.6
25°	605.3	613.0	615.3	625.3	625.3
27.5°	586.2	594.6	599.2	607.6	608.4
30°	565.5	575.4	581.6	590.8	590.8
32.5°	542.5	554.0	562.4	572.4	574.7
35°	521.0	533.3	543.3	554.8	557.8
37.5°	498.1	511.8	523.3	536.4	538.7
40°	475.1	488.9	504.2	517.2	520.3
42.5°	449.8	467.4	483.5	498.1	502.7
45°	426.0	444.4	463.6	478.1	484.3
47.5°	400.7	421.4	442.9	459.0	463.6
50°	376.2	397.7	421.4	439.1	444.4
52.5°	350.2	373.2	400.0	418.4	425.3
55°	324.9	350.2	377.8	398.4	404.6
57.5°	300.4	326.4	356.3	377.0	383.9
60°	274.3	301.9	333.3	354.8	363.2
62.5°	249.8	278.1	311.9	333.3	341.0
65°	224.5	254.4	288.1	311.1	318.8
67.5°	199.2	230.6	264.4	289.6	295.8
70°	172.4	205.4	242.1	266.7	274.3
72.5°	147.9	180.8	219.1	244.4	252.1
75°	121.8	157.8	196.2	221.4	230.6
77.5°	99.6	135.6	173.9	200.8	207.7
80°	75.9	113.4	153.2	179.3	187.0
82.5°	55.2	93.5	134.1	160.1	167.8
85°	37.5	75.9	116.5	142.5	150.2
87.5°	23.0	61.3	100.4	126.4	134.1
90°	10.6	53.8	100.4	128.7	137.5
92.5°	26.4	62.8	104.6	131.5	137.3
95°	42.3	76.2	118.4	144.4	152.1
97.5°	63.4	93.7	133.3	159.1	166.2
100°	85.0	112.9	151.1	175.0	183.7
102.5°	110.0	133.2	171.7	194.8	202.0
105°	135.2	154.8	193.0	214.4	222.4
107.5°	164.4	181.1	214.8	237.2	243.5
110°	191.1	206.1	237.8	260.1	265.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	219.8	231.1	260.2	282.3	289.2
115°	247.7	258.6	285.1	304.1	309.6
117.5°	277.0	283.8	308.6	327.0	331.4
120°	303.3	310.5	332.9	350.0	354.2
122.5°	331.4	335.2	357.8	372.9	376.6
125°	359.3	361.0	382.1	395.9	399.0
127.5°	385.7	388.3	406.4	418.2	421.4
130°	412.1	415.9	429.6	441.8	442.4
132.5°	437.7	442.3	452.6	463.6	466.1
135°	464.7	467.4	475.2	486.7	489.4
137.5°	489.4	491.5	498.5	508.0	510.1
140°	514.5	517.4	520.2	531.2	530.9
142.5°	538.0	540.1	541.2	550.7	551.6
145°	562.7	563.0	564.8	570.3	571.1
147.5°	583.1	585.4	587.1	589.4	589.1
150°	605.5	606.7	607.8	607.8	605.9
152.5°	623.9	625.6	626.2	627.3	624.5
155°	643.4	643.4	644.0	646.3	642.2
157.5°	660.0	659.5	660.0	662.3	658.9
160°	675.5	674.4	674.4	677.3	675.0
162.5°	689.3	687.6	688.2	691.0	687.0
165°	700.8	699.1	699.1	702.5	698.5
167.5°	710.5	708.3	708.8	712.3	708.8
170°	718.6	716.3	716.3	720.3	716.3
172.5°	724.9	722.6	722.6	726.0	722.0
175°	728.9	726.6	726.6	730.1	726.0
177.5°	731.2	728.9	728.9	732.4	728.3
180°	730.6	730.6	730.6	730.6	730.6

(END OF REPORT)