

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: P1011831

Luminaire Tested: S123DIP-B560D585UB35-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011831
REPORT IS A COMBINATION OF REPORTS P990137 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-D4
Description: Define 3 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

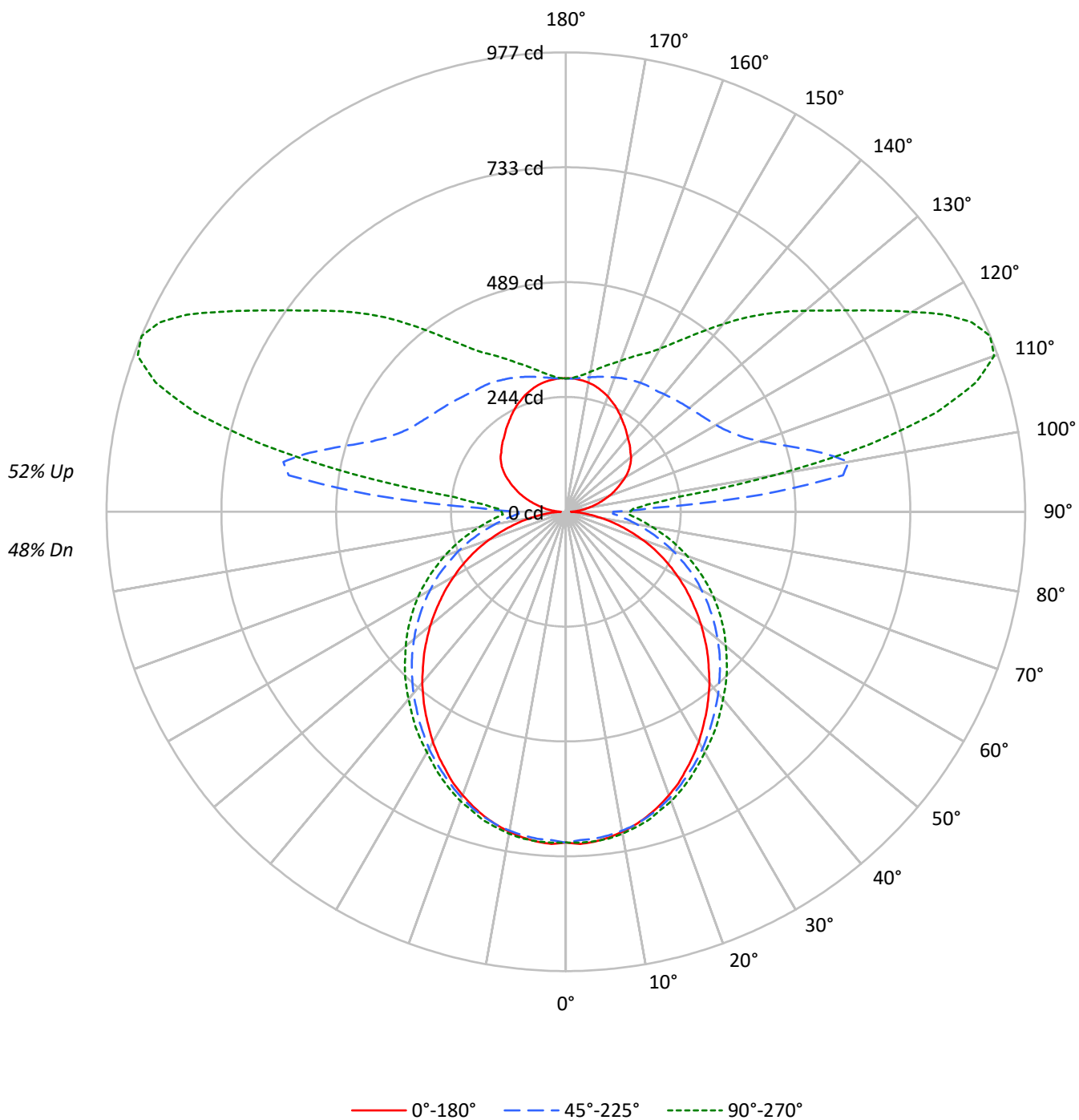
Lumens per Lamp: N/A
Luminaire Lumens: 4503.0 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	98	98	98	98	82	82	82	68	68	68	54	54	54
1	96	92	87	83	88	84	81	77	71	68	65	58	56	54	46	45	44
2	87	79	73	67	80	73	67	63	61	57	53	50	47	45	40	38	36
3	79	69	62	56	73	64	57	52	54	49	44	44	40	37	35	33	30
4	72	61	53	47	66	57	49	44	48	42	38	39	35	32	31	28	26
5	66	54	46	40	61	50	43	37	42	37	32	35	31	27	28	25	22
6	61	49	40	34	56	45	38	32	38	32	28	32	27	24	26	22	20
7	56	44	36	30	52	41	33	28	34	29	25	29	24	21	23	20	17
8	52	40	32	26	48	37	30	25	31	26	22	26	22	19	21	18	15
9	49	36	29	23	45	34	27	22	29	23	19	24	20	17	20	16	14
10	45	33	26	21	42	31	24	20	26	21	17	22	18	15	18	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	4.2
20°-30°	284.5	6.3
30°-40°	339.6	7.5
40°-50°	355.4	7.9
50°-60°	333.5	7.4
60°-70°	278.5	6.2
70°-80°	199.2	4.4
80°-90°	120.1	2.7
90°-100°	235.5	5.2
100°-110°	505.0	11.2
110°-120°	475.6	10.6
120°-130°	370.5	8.2
130°-140°	285.3	6.3
140°-150°	207.9	4.6
150°-160°	143.7	3.2
160°-170°	84.4	1.9
170°-180°	27.4	0.6
0°-30°	541.4	12.0
0°-40°	881.0	19.6
0°-60°	1569.9	34.9
0°-90°	2167.7	48.1
90°-120°	1216.2	27.0
90°-150°	2079.8	46.2
90°-180°	2335.0	51.9
0°-180°	4503.0	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	101	129	137	9
95°	28	102	416	199	174	27
105°	73	123	519	886	816	77
115°	121	160	394	833	953	120
125°	166	196	354	637	746	148
135°	193	229	334	515	594	149
145°	219	250	321	409	453	137
155°	248	268	310	353	368	114
165°	271	279	297	315	321	77
175°	283	283	285	289	289	27
180°	284	284	284	284	284	

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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°	11.1	54.4	100.9	128.6	136.9
92.5°	17.8	76.6	187.2	142.1	143.0
95°	27.9	101.7	416.2	198.8	173.9
97.5°	38.7	107.8	594.7	343.8	238.5
100°	49.4	111.5	610.1	611.2	456.3
102.5°	60.6	116.2	568.2	782.8	661.0
105°	72.7	122.9	518.9	885.7	815.8
107.5°	84.6	131.4	474.7	927.8	914.9
110°	97.6	140.0	438.1	924.6	969.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	110.2	149.3	411.7	886.8	976.6
115°	121.4	159.6	393.5	832.8	952.9
117.5°	133.5	168.6	379.2	775.4	908.1
120°	145.4	177.6	369.1	721.0	850.0
122.5°	156.3	186.8	361.2	677.0	796.0
125°	165.9	195.5	353.9	637.4	746.1
127.5°	173.9	205.0	348.4	604.2	702.5
130°	181.3	214.2	342.9	573.1	665.0
132.5°	186.3	222.4	338.4	543.8	629.6
135°	193.2	229.4	334.0	514.6	594.4
137.5°	199.5	235.8	329.8	485.8	558.2
140°	205.1	241.6	326.2	458.4	521.1
142.5°	212.0	245.9	321.9	432.4	485.5
145°	219.4	250.5	320.8	409.2	452.8
147.5°	226.1	255.4	319.1	390.5	424.9
150°	233.6	259.4	316.8	375.0	400.3
152.5°	241.0	263.7	313.9	363.5	381.6
155°	248.5	268.0	310.5	353.0	367.8
157.5°	254.2	271.8	307.6	342.6	354.6
160°	261.1	274.9	304.1	333.1	342.0
162.5°	266.3	277.2	300.7	324.2	330.5
165°	271.4	279.2	297.3	315.4	320.8
167.5°	275.5	280.9	293.8	307.5	311.0
170°	278.9	281.8	290.4	300.7	302.4
172.5°	281.2	282.6	287.5	294.7	294.4
175°	282.9	283.2	285.2	289.2	288.7
177.5°	284.1	283.5	283.5	285.8	284.6
180°	283.5	283.5	283.5	283.5	283.5

(END OF REPORT)