

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: P1011833

Luminaire Tested: S123DIP-B560D585UB35-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011833
REPORT IS A COMBINATION OF REPORTS P990139 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-F1
Description: Define 3 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

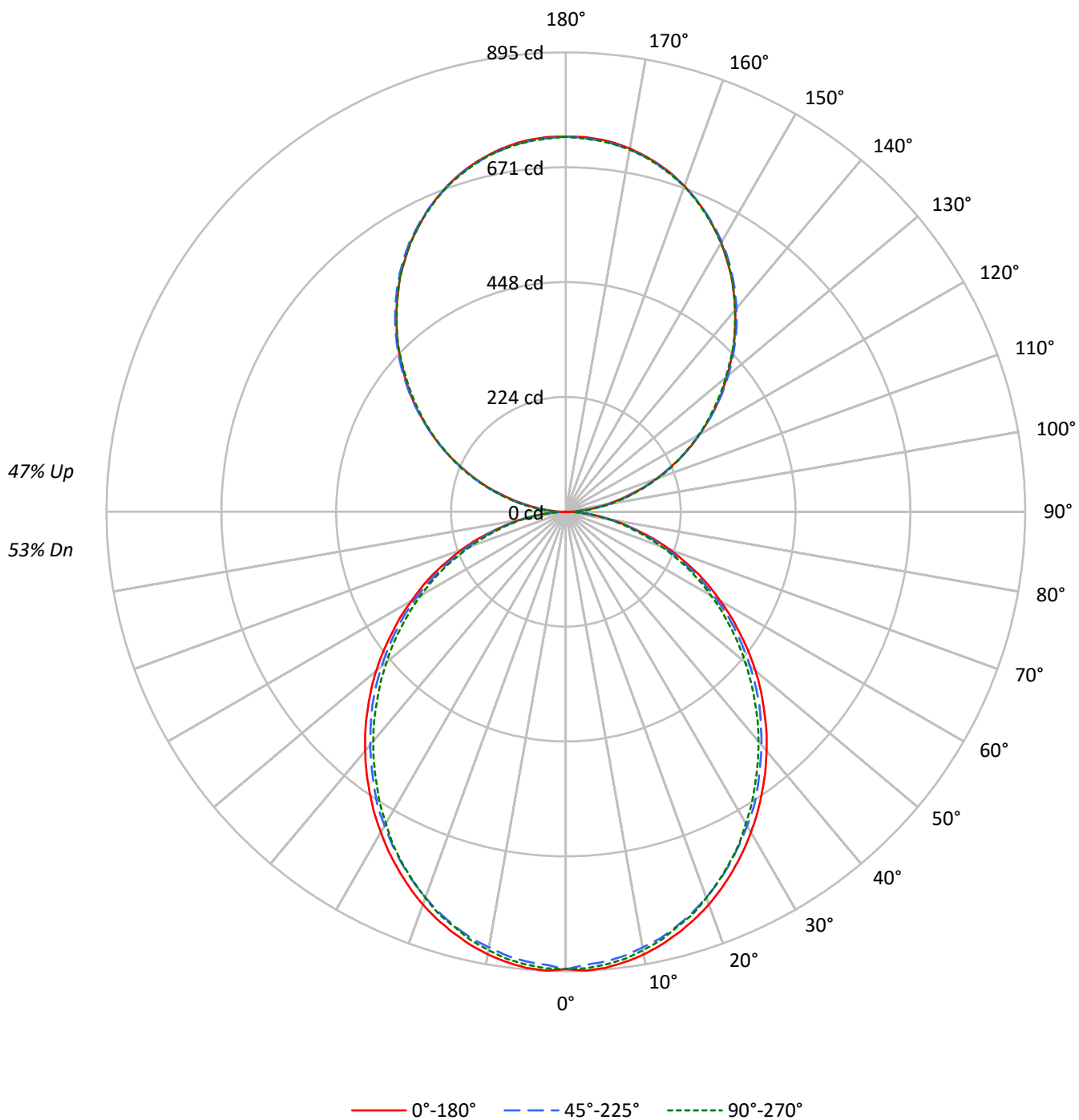
Lumens per Lamp: N/A
Luminaire Lumens: 4345.1 lumens
Efficiency: N/A
Efficacy: 110.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	108	108	108	108	100	100	100	100	85	85	85	72	72	72	59	59	59
1	98	94	90	87	91	87	84	81	75	72	70	63	61	60	52	51	50
2	90	82	76	71	83	76	71	66	65	61	58	55	52	50	46	44	42
3	82	72	65	59	75	67	61	55	58	53	49	49	45	42	41	38	36
4	75	64	56	50	69	59	52	47	51	46	41	44	39	36	36	33	31
5	69	57	49	43	63	53	46	40	46	40	36	39	35	31	33	29	27
6	63	51	43	37	58	48	40	35	41	35	31	35	31	27	30	26	24
7	59	46	38	32	54	43	36	31	37	32	27	32	28	24	27	24	21
8	54	42	34	29	50	39	32	27	34	28	24	29	25	22	25	21	19
9	51	38	31	26	47	36	29	24	31	26	22	27	23	19	23	20	17
10	47	35	28	23	44	33	26	22	29	23	20	25	21	18	21	18	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9591	9591	9591
5°	9615	9261	9246
10°	9529	8946	8855
15°	9397	8621	8428
20°	9245	8259	8005
25°	9049	7877	7554
30°	8834	7482	7078
35°	8609	7078	6607
40°	8372	6654	6142
45°	8113	6241	5656
50°	7849	5781	5170
55°	7510	5302	4676
60°	7162	4773	4151
65°	6834	4200	3603
70°	6364	3567	2964
75°	5683	2823	2301
80°	4908	1985	1627
85°	3823	1067	816

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8113 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.0	1.9
10°-20°	237.2	5.5
20°-30°	350.3	8.1
30°-40°	409.1	9.4
40°-50°	411.3	9.5
50°-60°	361.3	8.3
60°-70°	269.1	6.2
70°-80°	153.1	3.5
80°-90°	45.1	1.0
90°-100°	47.0	1.1
100°-110°	142.4	3.3
110°-120°	242.3	5.6
120°-130°	318.8	7.3
130°-140°	358.4	8.2
140°-150°	352.3	8.1
150°-160°	296.6	6.8
160°-170°	197.5	4.5
170°-180°	69.1	1.6
0°-30°	671.5	15.5
0°-40°	1080.6	24.9
0°-60°	1853.3	42.7
0°-90°	2320.6	53.4
90°-120°	431.8	9.9
90°-150°	1461.2	33.6
90°-180°	2024.0	46.6
0°-180°	4345.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	891	891	891	891	891	
5°	892	888	880	887	886	85
15°	849	846	836	842	837	239
25°	771	766	756	757	755	355
35°	667	662	652	647	644	417
45°	546	543	533	524	520	422
55°	414	414	404	395	392	371
65°	283	279	271	265	263	279
75°	149	146	144	140	138	160
85°	40	38	38	37	37	43
90°	1	6	14	16	17	5
95°	34	38	42	45	45	37
105°	129	130	136	136	137	138
115°	244	246	244	245	244	241
125°	357	359	358	355	353	318
135°	463	467	466	464	463	357
145°	562	563	565	564	562	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°	891.0	891.0	891.0	891.0	891.0
2.5°	894.9	891.8	883.4	891.0	890.3
5°	891.8	888.0	879.6	887.2	885.7
7.5°	884.9	881.1	872.7	879.6	878.8
10°	875.7	871.9	861.9	868.8	867.3
12.5°	863.5	860.4	851.2	855.8	855.0
15°	848.9	845.8	835.9	842.0	837.4
17.5°	832.8	829.0	819.0	823.6	822.1
20°	814.4	809.8	799.9	802.9	800.6
22.5°	793.7	789.1	779.2	781.5	778.4
25°	770.8	766.2	756.2	757.0	754.7
27.5°	747.0	742.4	731.7	732.5	730.2
30°	721.0	717.1	706.4	706.4	701.0
32.5°	694.9	689.5	681.9	676.5	674.2
35°	666.6	662.0	652.0	647.4	643.6
37.5°	638.2	632.1	622.1	616.8	614.5
40°	608.3	603.7	593.0	586.9	583.8
42.5°	578.5	573.1	562.4	556.2	553.2
45°	546.3	543.2	533.2	524.1	520.2
47.5°	514.9	510.3	501.1	491.9	488.8
50°	482.7	478.9	468.9	460.5	455.9
52.5°	449.0	446.7	435.9	429.1	424.5
55°	414.5	413.7	403.8	395.3	391.5
57.5°	382.3	379.3	371.6	363.9	359.3
60°	347.1	346.3	337.1	330.2	326.4
62.5°	315.7	313.4	304.2	297.3	295.0
65°	282.7	278.9	271.2	265.1	262.8
67.5°	247.5	244.4	238.3	232.9	229.8
70°	216.1	211.5	206.9	201.5	197.7
72.5°	183.1	180.0	174.7	170.1	168.6
75°	149.4	146.3	144.0	140.2	137.9
77.5°	119.5	118.0	114.9	111.9	111.9
80°	90.4	88.1	86.6	85.8	85.8
82.5°	62.1	62.1	62.1	60.5	59.8
85°	39.8	38.3	38.3	36.8	36.8
87.5°	19.9	17.6	16.9	16.1	16.1
90°	0.6	6.3	13.8	16.1	17.2
92.5°	17.2	20.7	24.1	25.8	24.7
95°	33.9	37.9	42.5	44.8	44.8
97.5°	55.7	58.5	62.0	64.9	64.3
100°	78.1	81.5	84.4	86.1	87.2
102.5°	103.9	105.6	109.6	111.3	110.8
105°	129.1	130.3	135.5	135.5	136.6
107.5°	159.0	159.6	161.9	163.6	163.0
110°	186.5	187.7	188.8	191.1	190.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	215.2	215.8	215.8	218.7	218.7
115°	243.9	245.6	244.5	245.1	244.5
117.5°	273.2	273.8	272.6	272.6	270.9
120°	300.2	303.6	300.7	300.2	299.0
122.5°	328.3	330.6	329.4	327.7	326.0
125°	357.0	358.7	357.6	355.3	353.0
127.5°	383.4	386.8	385.7	382.2	380.0
130°	409.8	414.4	412.7	410.4	406.4
132.5°	436.2	440.8	439.6	436.8	433.9
135°	463.2	466.6	466.0	463.7	462.6
137.5°	487.9	490.7	492.4	489.6	487.9
140°	513.7	516.6	517.1	516.6	512.5
142.5°	537.2	540.1	541.2	540.7	537.8
145°	561.9	563.0	564.8	564.2	561.9
147.5°	583.1	585.4	587.1	587.1	583.7
150°	605.5	606.7	607.8	607.8	604.4
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)