

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: P1011744

Luminaire Tested: S123DIP-B560D1195UB35-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011744
REPORT IS A COMBINATION OF REPORTS P990017 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B560D1195UB35-4F0-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

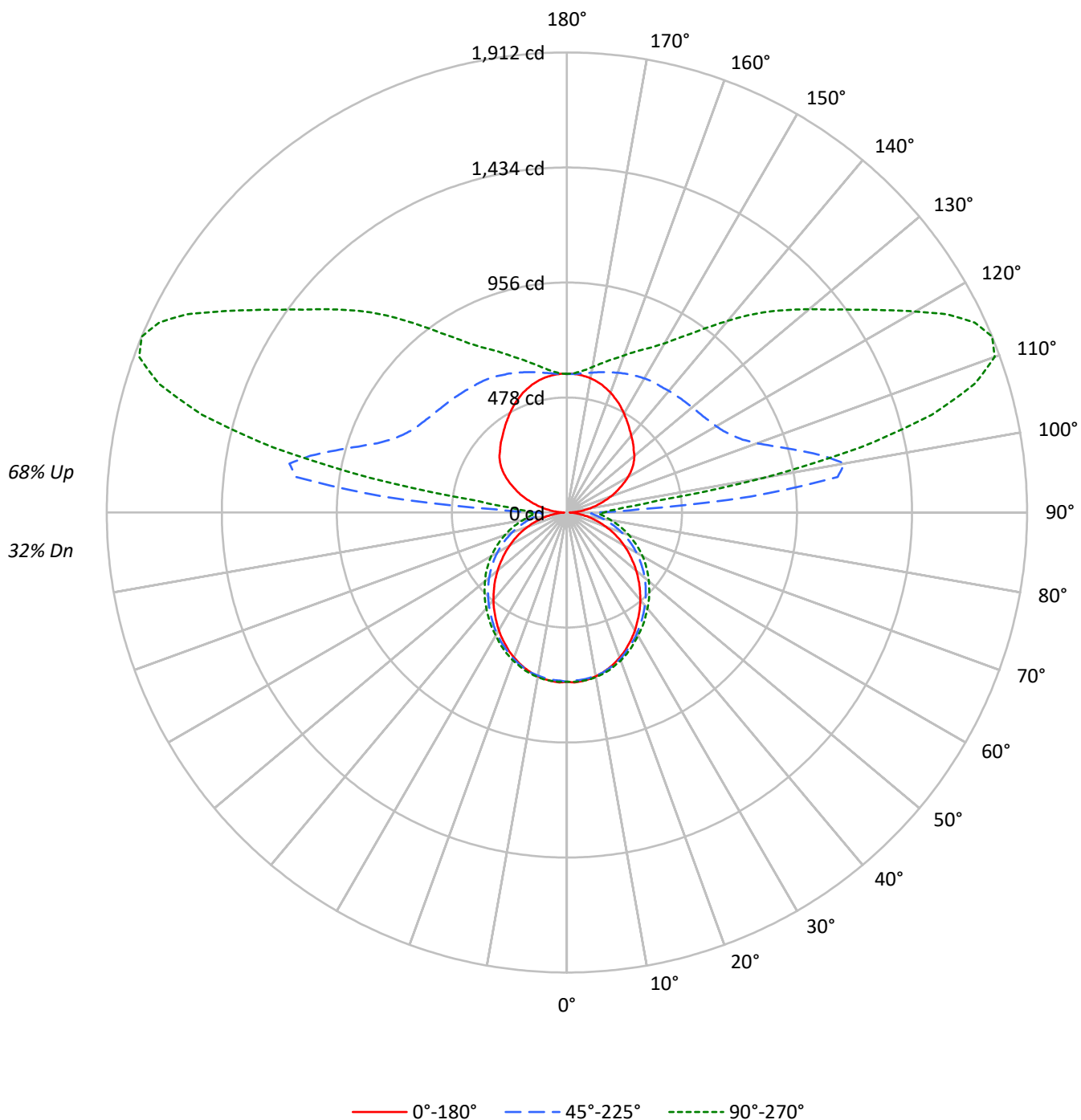
Lumens per Lamp: N/A
Luminaire Lumens: 6710.1 lumens
Efficiency: N/A
Efficacy: 113.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 59
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

TEST NUMBER: P1011744

CATALOG NUMBER: S123DIP-B560D1195UB35-4F0-XX-W2A-D4

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
RCR																	
0	103	103	103	103	93	93	93	93	74	74	74		56	56	56		40
1	93	89	85	81	84	80	76	73	63	61	59		48	47	45		34
2	84	77	71	65	76	69	64	60	55	51	48		42	39	37		30
3	77	67	60	54	69	61	54	49	48	44	40		37	34	31		26
4	70	59	52	45	63	54	47	42	43	38	34		33	29	26		23
5	64	53	45	39	57	48	41	35	38	33	29		29	25	23		21
6	59	47	39	33	53	43	36	31	34	29	25		26	22	20		19
7	54	42	34	29	49	38	31	27	31	26	22		24	20	17		17
8	50	38	31	25	45	35	28	23	28	23	19		22	18	15		16
9	47	35	27	22	42	32	25	21	26	21	17		20	16	14		14
10	44	32	25	20	39	29	23	18	23	19	15		18	15	12		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

TEST NUMBER: P1011744

CATALOG NUMBER: S123DIP-B560D1195UB35-4F0-XX-W2A-D4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.7	1.0
10°-20°	190.2	2.8
20°-30°	284.5	4.2
30°-40°	339.6	5.1
40°-50°	355.4	5.3
50°-60°	333.5	5.0
60°-70°	278.5	4.2
70°-80°	199.2	3.0
80°-90°	121.7	1.8
90°-100°	401.8	6.0
100°-110°	969.7	14.5
110°-120°	928.7	13.8
120°-130°	731.2	10.9
130°-140°	570.1	8.5
140°-150°	420.3	6.3
150°-160°	291.9	4.3
160°-170°	171.5	2.6
170°-180°	55.8	0.8
0°-30°	541.4	8.1
0°-40°	881.0	13.1
0°-60°	1569.9	23.4
0°-90°	2169.3	32.3
90°-120°	2300.1	34.3
90°-150°	4021.7	59.9
90°-180°	4541.0	67.7
0°-180°	6710.1	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°	12	62	116	145	154	10
95°	48	167	767	301	243	49
105°	141	224	995	1718	1569	150
115°	243	311	758	1631	1869	241
125°	335	395	694	1253	1468	297
135°	391	465	669	1022	1180	302
145°	445	509	652	825	910	279
155°	505	545	631	717	747	232
165°	552	567	604	641	652	155
175°	575	575	580	588	586	55
180°	576	576	576	576	576	

TEST NUMBER: P1011744

CATALOG NUMBER: S123DIP-B560D1195UB35-4F0-XX-W2A-D4

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°	12.3	61.5	115.8	145.2	154.1
92.5°	26.7	112.1	297.4	179.8	174.4
95°	48.0	167.1	767.3	301.3	242.6
97.5°	70.7	182.7	1134.7	601.4	379.4
100°	93.2	194.0	1170.9	1150.0	827.6
102.5°	116.9	207.7	1090.5	1504.3	1249.1
105°	141.4	224.4	995.0	1718.4	1569.0
107.5°	166.3	244.8	909.9	1809.2	1775.9
110°	193.5	265.6	839.6	1807.5	1891.7

TEST NUMBER: P1011744

CATALOG NUMBER: S123DIP-B560D1195UB35-4F0-XX-W2A-D4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	219.1	287.6	790.6	1736.2	1911.6
115°	242.8	311.0	757.7	1631.4	1868.9
117.5°	267.3	332.4	733.3	1519.5	1782.7
120°	292.3	353.8	716.6	1413.4	1670.1
122.5°	314.4	374.8	704.7	1329.0	1565.3
125°	334.6	394.7	693.8	1253.2	1468.5
127.5°	350.9	414.8	686.5	1190.4	1384.6
130°	366.1	433.5	679.2	1132.2	1314.0
132.5°	377.0	450.4	674.1	1077.4	1246.0
135°	390.9	465.4	669.2	1021.7	1180.0
137.5°	403.8	478.3	663.7	968.2	1111.3
140°	415.9	490.0	659.6	916.5	1039.8
142.5°	429.9	499.6	654.1	868.2	972.3
145°	445.1	509.0	651.8	825.2	910.5
147.5°	459.4	518.8	648.3	791.2	857.8
150°	474.6	527.0	643.6	762.0	811.9
152.5°	489.7	535.8	637.8	738.6	775.4
155°	504.9	544.6	630.8	717.1	747.4
157.5°	516.5	552.1	625.0	696.1	720.6
160°	530.5	558.6	618.0	676.9	694.9
162.5°	541.0	563.2	611.0	658.8	671.6
165°	551.5	567.2	604.0	640.7	651.8
167.5°	559.7	570.8	597.0	625.0	632.0
170°	566.7	572.5	590.0	611.0	614.5
172.5°	571.3	574.2	584.2	598.8	598.2
175°	574.8	575.4	579.5	587.7	586.5
177.5°	577.2	576.0	576.0	580.7	578.3
180°	576.0	576.0	576.0	576.0	576.0

(END OF REPORT)