

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: P1011762

Luminaire Tested: S123DIP-B560D1195UB50-4F0-XX-W2A-D4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011762
REPORT IS A COMBINATION OF REPORTS P990035 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B560D1195UB50-4F0-XX-W2A-D4
Description: Define 3 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

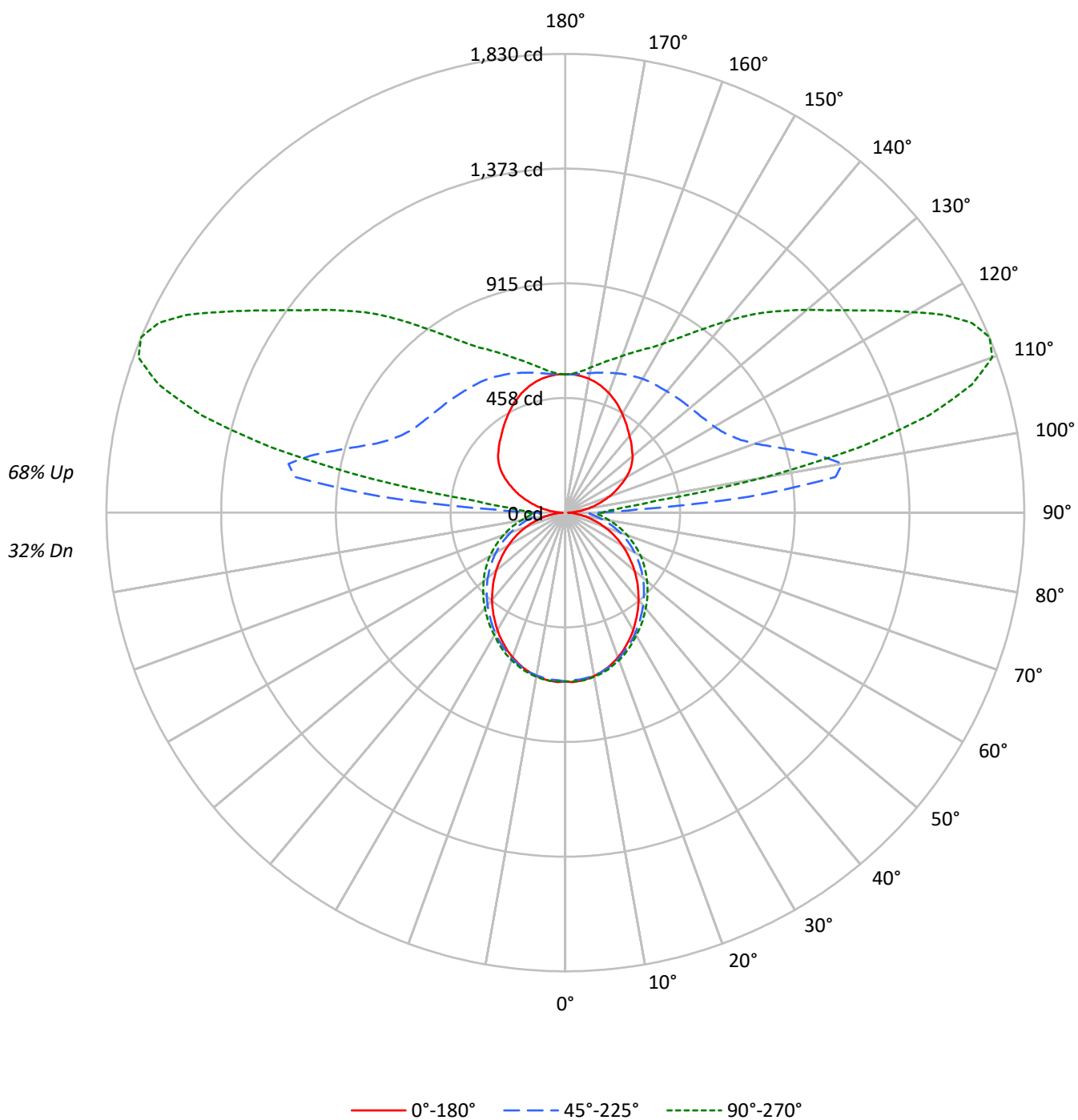
Lumens per Lamp: N/A
Luminaire Lumens: 6424.7 lumens
Efficiency: N/A
Efficacy: 108.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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

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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	50	30	10
RCR																				
0	103	103	103	103	93	93	93	93	74	74	74	56	56	56	40	40	40	40	40	32
1	93	89	85	81	84	80	76	73	63	61	59	48	47	45	34	33	32	32	32	26
2	84	77	71	65	76	69	64	60	55	51	48	42	39	37	30	28	27	27	27	21
3	77	67	60	54	69	61	54	49	48	44	40	37	34	31	26	24	22	22	22	18
4	70	59	52	45	63	54	47	42	43	38	34	33	29	26	23	21	19	19	19	15
5	64	53	45	39	57	48	41	35	38	33	29	29	25	23	21	18	16	16	16	13
6	59	47	39	33	53	43	36	31	34	29	25	26	22	20	19	16	14	14	14	11
7	54	42	34	29	49	38	31	27	31	26	22	24	20	17	17	15	13	13	13	10
8	50	38	31	25	45	35	28	23	28	23	19	22	18	15	16	13	11	11	11	9
9	47	35	27	22	42	32	25	21	26	21	17	20	16	14	14	12	10	10	10	8
10	44	32	25	20	39	29	23	18	23	19	15	18	15	12	13	11	9	9	9	7

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	1.0
10°-20°	182.1	2.8
20°-30°	272.3	4.2
30°-40°	325.1	5.1
40°-50°	340.2	5.3
50°-60°	319.2	5.0
60°-70°	266.6	4.2
70°-80°	190.7	3.0
80°-90°	116.5	1.8
90°-100°	384.7	6.0
100°-110°	928.5	14.5
110°-120°	889.3	13.8
120°-130°	700.2	10.9
130°-140°	545.9	8.5
140°-150°	402.5	6.3
150°-160°	279.5	4.3
160°-170°	164.2	2.6
170°-180°	53.4	0.8
0°-30°	518.3	8.1
0°-40°	843.4	13.1
0°-60°	1502.8	23.4
0°-90°	2076.6	32.3
90°-120°	2202.4	34.3
90°-150°	3851.0	59.9
90°-180°	4348.0	67.7
0°-180°	6424.7	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°	12	59	111	139	148	10
95°	46	160	735	289	232	47
105°	135	215	953	1645	1502	143
115°	233	298	726	1562	1790	230
125°	320	378	664	1200	1406	285
135°	374	446	641	978	1130	289
145°	426	487	624	790	872	267
155°	484	521	604	687	716	222
165°	528	543	578	614	624	149
175°	550	551	555	563	562	52
180°	552	552	552	552	552	

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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°	11.7	58.9	110.8	139.0	147.6
92.5°	25.5	107.2	284.7	172.1	167.0
95°	46.1	160.0	734.7	288.6	232.2
97.5°	67.6	174.9	1086.5	575.8	363.3
100°	89.2	185.8	1121.2	1101.1	792.5
102.5°	112.0	198.9	1044.2	1440.5	1196.0
105°	135.4	215.0	952.7	1645.4	1502.4
107.5°	159.2	234.3	871.3	1732.4	1700.4
110°	185.3	254.3	803.9	1730.8	1811.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	209.8	275.4	757.1	1662.6	1830.5
115°	232.6	297.8	725.6	1562.2	1789.6
117.5°	256.0	318.2	702.2	1455.0	1707.0
120°	279.8	338.8	686.2	1353.5	1599.2
122.5°	301.0	358.9	674.7	1272.6	1498.8
125°	320.4	377.9	664.4	1200.1	1406.2
127.5°	336.0	397.3	657.3	1139.9	1325.8
130°	350.6	415.2	650.3	1084.1	1258.2
132.5°	361.0	431.4	645.6	1031.7	1193.1
135°	374.4	445.6	640.8	978.3	1130.0
137.5°	386.7	458.0	635.6	927.0	1064.1
140°	398.2	469.0	631.5	877.5	995.7
142.5°	411.6	478.4	626.4	831.3	931.0
145°	426.1	487.4	624.1	790.3	871.9
147.5°	439.9	496.8	620.8	757.6	821.3
150°	454.4	504.6	616.3	729.6	777.5
152.5°	468.9	513.0	610.7	707.3	742.5
155°	483.5	521.4	604.0	686.7	715.7
157.5°	494.6	528.6	598.5	666.6	690.0
160°	508.0	534.8	591.8	648.2	665.5
162.5°	518.1	539.3	585.1	630.8	643.1
165°	528.1	543.2	578.4	613.5	624.1
167.5°	535.9	546.6	571.7	598.4	605.2
170°	542.6	548.2	565.0	585.0	588.4
172.5°	547.1	549.9	559.4	573.3	572.8
175°	550.5	551.0	554.9	562.7	561.6
177.5°	552.7	551.6	551.6	556.0	553.8
180°	551.6	551.6	551.6	551.6	551.6

(END OF REPORT)