

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: P1011753

Luminaire Tested: S123DIP-B560D1195UB40-4F0-XX-W2A-D4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011753
REPORT IS A COMBINATION OF REPORTS P990026 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B560D1195UB40-4F0-XX-W2A-D4
Description: Define 3 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

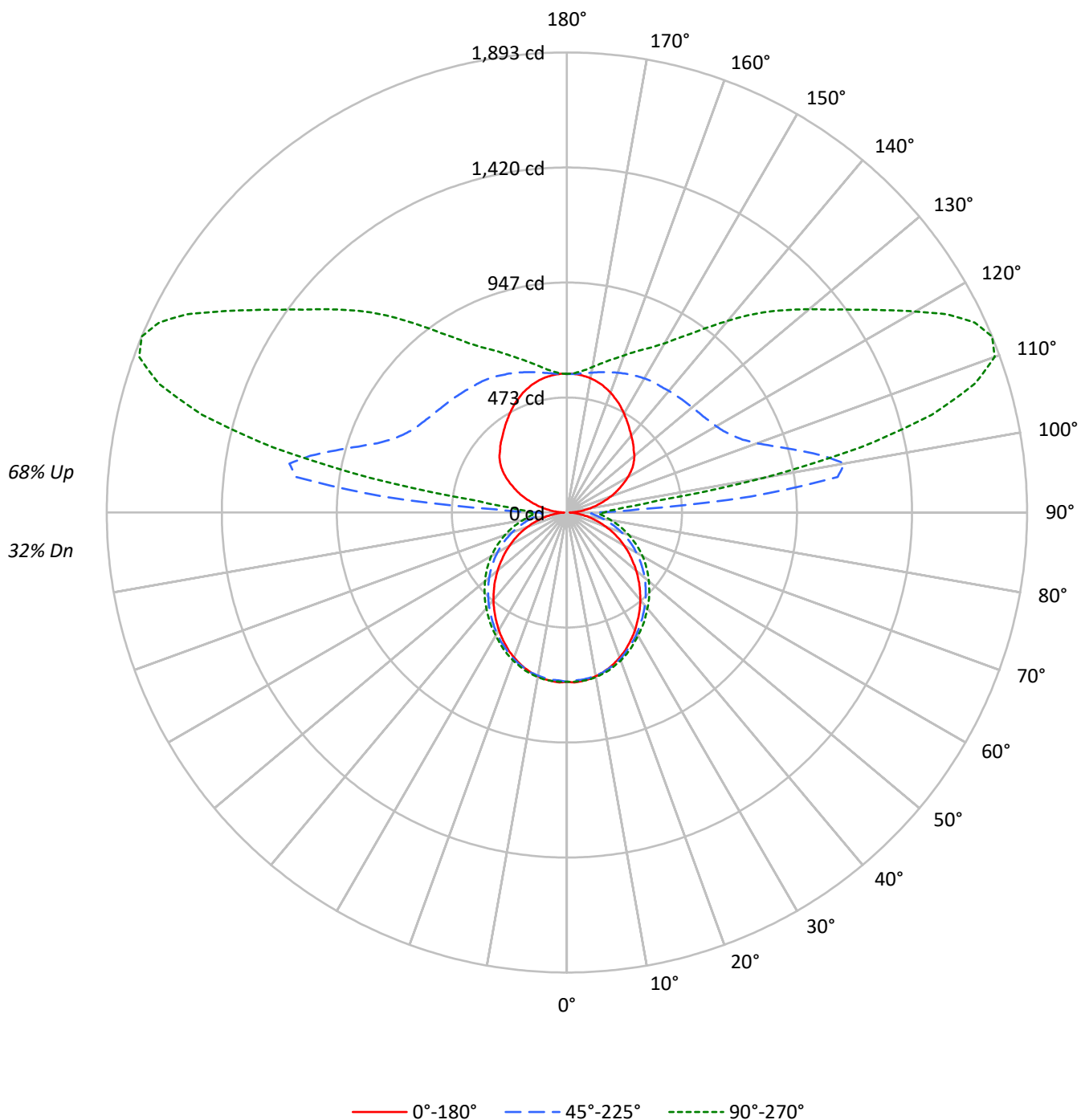
Lumens per Lamp: N/A
Luminaire Lumens: 6643.1 lumens
Efficiency: N/A
Efficacy: 112.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7495	7495	7495
5°	7515	7275	7269
10°	7444	7078	7023
15°	7347	6860	6764
20°	7206	6618	6484
25°	7034	6344	6195
30°	6858	6097	5905
35°	6661	5837	5668
40°	6471	5601	5418
45°	6263	5371	5212
50°	6056	5144	4988
55°	5827	4910	4783
60°	5602	4671	4572
65°	5371	4417	4325
70°	5027	4132	4071
75°	4588	3807	3809
80°	4077	3477	3510
85°	3573	3211	3296

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6263 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.0	1.0
10°-20°	188.3	2.8
20°-30°	281.6	4.2
30°-40°	336.2	5.1
40°-50°	351.8	5.3
50°-60°	330.1	5.0
60°-70°	275.7	4.2
70°-80°	197.1	3.0
80°-90°	120.5	1.8
90°-100°	397.8	6.0
100°-110°	960.0	14.5
110°-120°	919.5	13.8
120°-130°	724.0	10.9
130°-140°	564.4	8.5
140°-150°	416.2	6.3
150°-160°	289.0	4.4
160°-170°	169.8	2.6
170°-180°	55.2	0.8
0°-30°	535.9	8.1
0°-40°	872.1	13.1
0°-60°	1553.9	23.4
0°-90°	2147.3	32.3
90°-120°	2277.3	34.3
90°-150°	3981.8	59.9
90°-180°	4496.0	67.7
0°-180°	6643.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	696	696	696	696	696	
5°	697	696	691	697	696	66
15°	664	666	665	673	672	187
25°	599	607	609	619	619	276
35°	516	528	538	549	552	323
45°	422	440	459	473	479	325
55°	322	347	374	394	400	288
65°	222	252	285	308	316	220
75°	121	156	194	219	228	129
85°	37	75	115	141	149	38
90°	12	61	115	144	153	10
95°	48	166	760	298	240	48
105°	140	222	985	1701	1553	148
115°	240	308	750	1615	1850	238
125°	331	391	687	1241	1454	295
135°	387	461	662	1012	1168	299
145°	441	504	645	817	902	276
155°	500	539	625	710	740	230
165°	546	562	598	634	645	154
175°	569	570	574	582	581	54
180°	570	570	570	570	570	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	696.3	696.3	696.3	696.3	696.3
2.5°	700.1	697.8	691.7	697.8	697.0
5°	697.0	695.5	691.0	697.0	696.3
7.5°	691.7	691.7	687.2	694.7	694.0
10°	684.1	685.6	681.9	689.4	687.9
12.5°	675.0	677.3	675.0	681.9	680.3
15°	663.7	665.9	665.2	672.8	672.0
17.5°	650.0	654.6	653.8	660.6	659.1
20°	634.8	639.4	640.9	647.7	648.5
22.5°	618.9	623.5	625.7	634.8	634.1
25°	599.2	606.8	609.0	618.9	618.9
27.5°	580.2	588.6	593.1	601.5	602.2
30°	559.7	569.6	575.7	584.8	584.8
32.5°	537.0	548.4	556.7	566.6	568.8
35°	515.8	527.9	537.7	549.1	552.2
37.5°	493.0	506.7	518.0	530.9	533.2
40°	470.2	483.9	499.1	512.0	515.0
42.5°	445.2	462.7	478.6	493.0	497.5
45°	421.7	439.9	458.9	473.3	479.3
47.5°	396.7	417.2	438.4	454.3	458.9
50°	372.4	393.6	417.2	434.6	439.9
52.5°	346.6	369.4	395.9	414.1	420.9
55°	321.6	346.6	373.9	394.4	400.5
57.5°	297.3	323.1	352.7	373.2	380.0
60°	271.5	298.8	329.9	351.2	359.5
62.5°	247.3	275.3	308.7	329.9	337.5
65°	222.2	251.8	285.2	307.9	315.5
67.5°	197.2	228.3	261.7	286.7	292.8
70°	170.7	203.3	239.7	263.9	271.5
72.5°	146.4	179.0	216.9	241.9	249.5
75°	120.6	156.2	194.2	219.2	228.3
77.5°	98.6	134.2	172.2	198.7	205.5
80°	75.1	112.3	151.7	177.5	185.1
82.5°	54.6	92.5	132.7	158.5	166.1
85°	37.2	75.1	115.3	141.1	148.7
87.5°	22.8	60.7	99.4	125.1	132.7
90°	12.2	60.8	114.6	143.8	152.6
92.5°	26.4	111.0	294.3	178.0	172.7
95°	47.6	165.5	759.7	298.3	240.1
97.5°	69.9	181.0	1123.4	595.5	375.7
100°	92.2	192.2	1159.3	1138.6	819.4
102.5°	115.8	205.7	1079.6	1489.4	1236.7
105°	140.0	222.3	985.1	1701.2	1553.4
107.5°	164.6	242.2	900.8	1791.2	1758.2
110°	191.6	263.0	831.2	1789.6	1872.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	217.0	284.8	782.8	1719.0	1892.7
115°	240.5	307.8	750.2	1615.2	1850.4
117.5°	264.7	329.1	726.0	1504.4	1765.0
120°	289.3	350.2	709.6	1399.4	1653.5
122.5°	311.2	371.2	697.7	1315.8	1549.7
125°	331.3	390.8	687.0	1240.9	1453.9
127.5°	347.5	410.8	679.7	1178.5	1370.9
130°	362.5	429.2	672.4	1120.9	1300.9
132.5°	373.2	446.0	667.5	1066.6	1233.7
135°	387.1	460.8	662.5	1011.6	1168.3
137.5°	399.8	473.6	657.2	958.5	1100.3
140°	411.8	485.1	653.0	907.4	1029.5
142.5°	425.6	494.7	647.6	859.6	962.7
145°	440.6	503.9	645.3	817.1	901.5
147.5°	454.9	513.8	641.9	783.3	849.2
150°	469.9	521.8	637.3	754.4	803.8
152.5°	484.9	530.5	631.5	731.4	767.7
155°	499.9	539.1	624.6	710.0	740.0
157.5°	511.4	546.6	618.8	689.2	713.5
160°	525.3	553.0	611.9	670.2	688.1
162.5°	535.7	557.6	604.9	652.2	665.0
165°	546.1	561.7	598.0	634.4	645.3
167.5°	554.1	565.1	591.1	618.8	625.7
170°	561.1	566.8	584.2	605.0	608.4
172.5°	565.7	568.6	578.4	592.8	592.2
175°	569.1	569.7	573.8	581.8	580.7
177.5°	571.5	570.3	570.3	574.9	572.6
180°	570.3	570.3	570.3	570.3	570.3

(END OF REPORT)