

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: P1011765

Luminaire Tested: S123DIP-B560D1195UB50-4F0-XX-W2A-F4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011765
REPORT IS A COMBINATION OF REPORTS P990038 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-F4
Description: Define 3 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

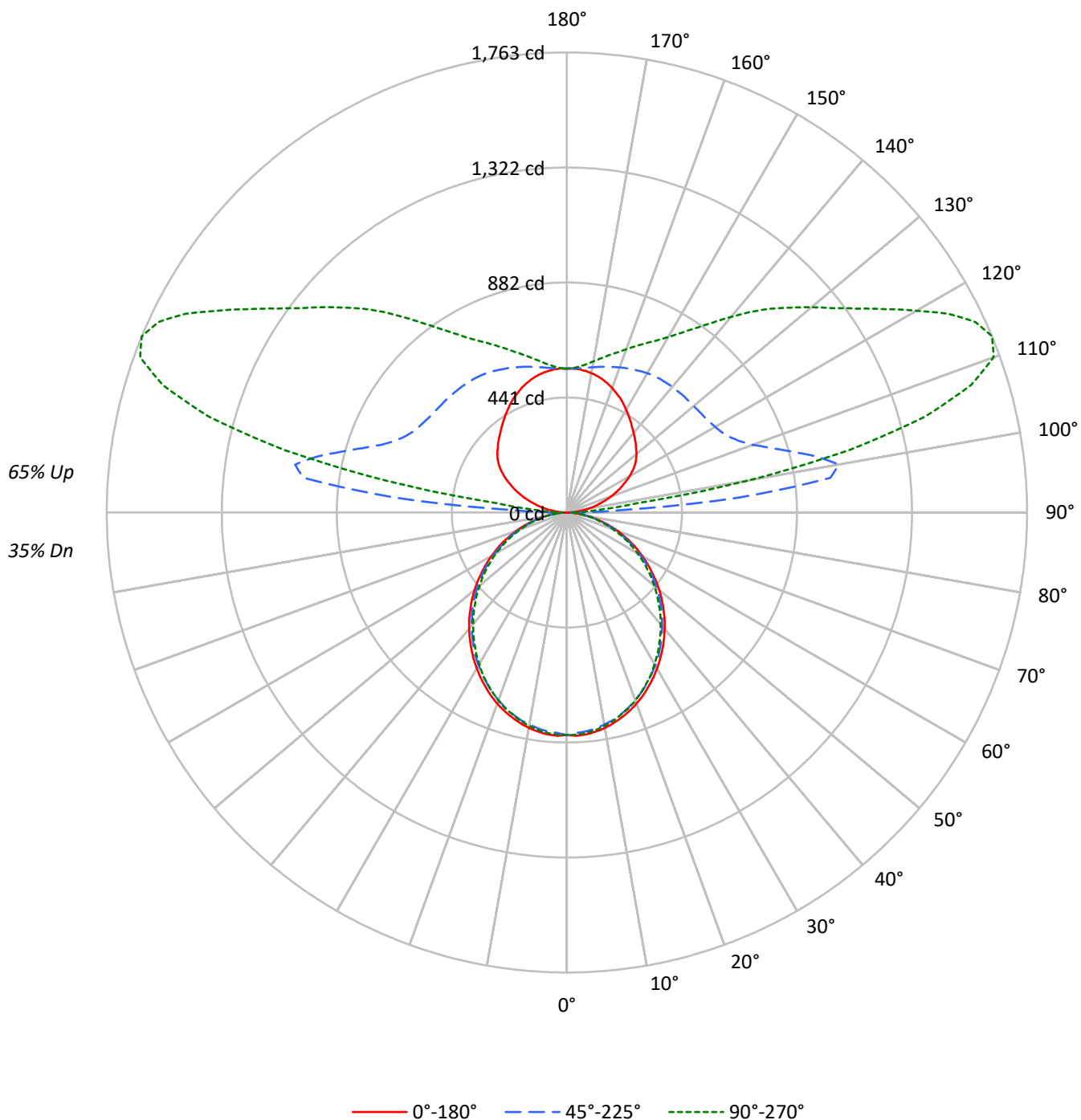
Lumens per Lamp: N/A
Luminaire Lumens: 6381.7 lumens
Efficiency: N/A
Efficacy: 108.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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: P1011765

CATALOG NUMBER: S123DIP-B560D1195UB50-4F0-XX-W2A-F4

Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				20
RC	80				70				50				30				10				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	104	104	104	104	94	94	94	94	75	75	75	58	58	58	42	42	42	35			
1	94	90	86	83	85	82	78	75	65	63	61	51	49	48	37	36	35	29			
2	86	79	73	68	77	71	66	62	57	54	51	45	42	40	33	31	30	24			
3	78	69	62	56	70	63	56	52	51	46	43	39	36	34	29	27	25	21			
4	72	61	53	47	64	55	49	44	45	40	36	35	32	29	26	24	22	18			
5	66	54	46	40	59	49	42	37	40	35	31	31	28	25	23	21	19	15			
6	60	49	41	35	54	44	37	32	36	31	27	28	25	22	21	19	17	14			
7	56	44	36	31	50	40	33	28	33	27	24	26	22	19	19	17	15	12			
8	52	40	32	27	47	36	29	25	30	25	21	23	20	17	18	15	13	11			
9	48	36	29	24	43	33	26	22	27	22	19	21	18	15	16	14	12	10			
10	45	33	26	21	40	30	24	20	25	20	17	20	16	14	15	13	11	9			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9182	9182	9182
5°	9204	8865	8852
10°	9122	8564	8477
15°	8996	8253	8069
20°	8851	7906	7664
25°	8663	7541	7232
30°	8457	7162	6776
35°	8241	6776	6324
40°	8015	6370	5880
45°	7767	5975	5415
50°	7514	5535	4949
55°	7190	5075	4476
60°	6857	4569	3974
65°	6541	4021	3449
70°	6090	3413	2837
75°	5440	2703	2202
80°	4696	1900	1557
85°	3660	1022	780

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7767 cd/sqm

TEST NUMBER: P1011765

CATALOG NUMBER: S123DIP-B560D1195UB50-4F0-XX-W2A-F4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.4	1.3
10°-20°	227.1	3.6
20°-30°	335.4	5.3
30°-40°	391.7	6.1
40°-50°	393.8	6.2
50°-60°	345.9	5.4
60°-70°	257.6	4.0
70°-80°	146.6	2.3
80°-90°	44.7	0.7
90°-100°	313.4	4.9
100°-110°	876.1	13.7
110°-120°	854.3	13.4
120°-130°	680.2	10.7
130°-140°	536.9	8.4
140°-150°	400.6	6.3
150°-160°	279.5	4.4
160°-170°	164.2	2.6
170°-180°	53.4	0.8
0°-30°	642.8	10.1
0°-40°	1034.5	16.2
0°-60°	1774.1	27.8
0°-90°	2223.1	34.8
90°-120°	2043.8	32.0
90°-150°	3661.5	57.4
90°-180°	4159.0	65.2
0°-180°	6381.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	853	853	853	853	853	
5°	854	850	842	849	848	81
15°	813	810	800	806	802	229
25°	738	734	724	725	722	340
35°	638	634	624	620	616	399
45°	523	520	510	502	498	404
55°	397	396	386	378	375	355
65°	271	267	260	254	252	267
75°	143	140	138	134	132	153
85°	38	37	37	35	35	41
90°	2	13	28	31	32	6
95°	38	123	662	193	130	40
105°	130	192	898	1570	1420	138
115°	229	285	687	1506	1727	227
125°	318	376	641	1161	1362	283
135°	373	445	632	956	1104	288
145°	425	487	624	784	863	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	

TEST NUMBER: P1011765

CATALOG NUMBER: S123DIP-B560D1195UB50-4F0-XX-W2A-F4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	853.0	853.0	853.0	853.0	853.0
2.5°	856.7	853.7	845.7	853.0	852.3
5°	853.7	850.1	842.0	849.3	847.9
7.5°	847.1	843.5	835.4	842.0	841.3
10°	838.3	834.7	825.1	831.7	830.3
12.5°	826.6	823.7	814.9	819.3	818.5
15°	812.7	809.7	800.2	806.1	801.7
17.5°	797.3	793.6	784.1	788.5	787.0
20°	779.7	775.3	765.7	768.7	766.5
22.5°	759.9	755.5	745.9	748.1	745.2
25°	737.9	733.5	723.9	724.7	722.5
27.5°	715.1	710.7	700.4	701.2	699.0
30°	690.2	686.5	676.2	676.2	671.1
32.5°	665.2	660.1	652.8	647.6	645.4
35°	638.1	633.7	624.2	619.8	616.1
37.5°	611.0	605.1	595.6	590.4	588.2
40°	582.4	578.0	567.7	561.8	558.9
42.5°	553.8	548.6	538.4	532.5	529.6
45°	523.0	520.0	510.5	501.7	498.0
47.5°	492.9	488.5	479.7	470.9	467.9
50°	462.1	458.4	448.9	440.8	436.4
52.5°	429.8	427.6	417.3	410.7	406.3
55°	396.8	396.1	386.5	378.5	374.8
57.5°	366.0	363.1	355.7	348.4	344.0
60°	332.3	331.5	322.7	316.1	312.5
62.5°	302.2	300.0	291.2	284.6	282.4
65°	270.6	267.0	259.6	253.8	251.6
67.5°	236.9	234.0	228.1	223.0	220.0
70°	206.8	202.4	198.0	192.9	189.2
72.5°	175.3	172.4	167.2	162.8	161.4
75°	143.0	140.1	137.9	134.2	132.0
77.5°	114.4	113.0	110.0	107.1	107.1
80°	86.5	84.3	82.9	82.1	82.1
82.5°	59.4	59.4	59.4	57.9	57.2
85°	38.1	36.7	36.7	35.2	35.2
87.5°	19.1	16.9	16.1	15.4	15.4
90°	2.2	13.4	27.9	31.2	32.4
92.5°	16.7	67.0	207.7	70.9	59.2
95°	38.0	123.4	662.1	193.2	129.5
97.5°	60.3	141.2	1018.3	485.6	265.7
100°	82.6	155.8	1057.4	1016.0	700.1
102.5°	106.1	172.5	984.8	1360.5	1108.7
105°	129.5	191.5	897.7	1569.8	1420.2
107.5°	154.1	213.8	820.7	1662.0	1623.4
110°	180.9	236.7	757.0	1664.8	1739.6

TEST NUMBER: P1011765

CATALOG NUMBER: S123DIP-B560D1195UB50-4F0-XX-W2A-F4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	205.4	260.7	714.6	1601.6	1763.0
115°	228.9	285.2	686.7	1505.6	1727.3
117.5°	252.3	308.8	667.7	1402.9	1649.1
120°	276.9	332.2	655.4	1305.8	1546.4
122.5°	298.1	354.5	647.6	1229.3	1450.4
125°	318.2	375.7	640.9	1161.2	1362.2
127.5°	333.8	395.8	637.5	1105.4	1286.2
130°	348.4	413.6	634.2	1054.0	1223.7
132.5°	359.5	429.9	633.1	1006.0	1162.3
135°	372.9	445.0	632.0	956.3	1104.3
137.5°	385.2	457.2	629.7	909.4	1042.8
140°	397.5	468.4	628.6	863.6	978.1
142.5°	410.9	478.4	626.4	821.8	917.8
145°	425.4	487.4	624.1	784.4	863.1
147.5°	439.9	496.8	620.8	755.4	816.2
150°	454.4	504.6	616.3	729.6	776.0
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)