

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: P1011742

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

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011742
REPORT IS A COMBINATION OF REPORTS P990015 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-D
Description: Define 3 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

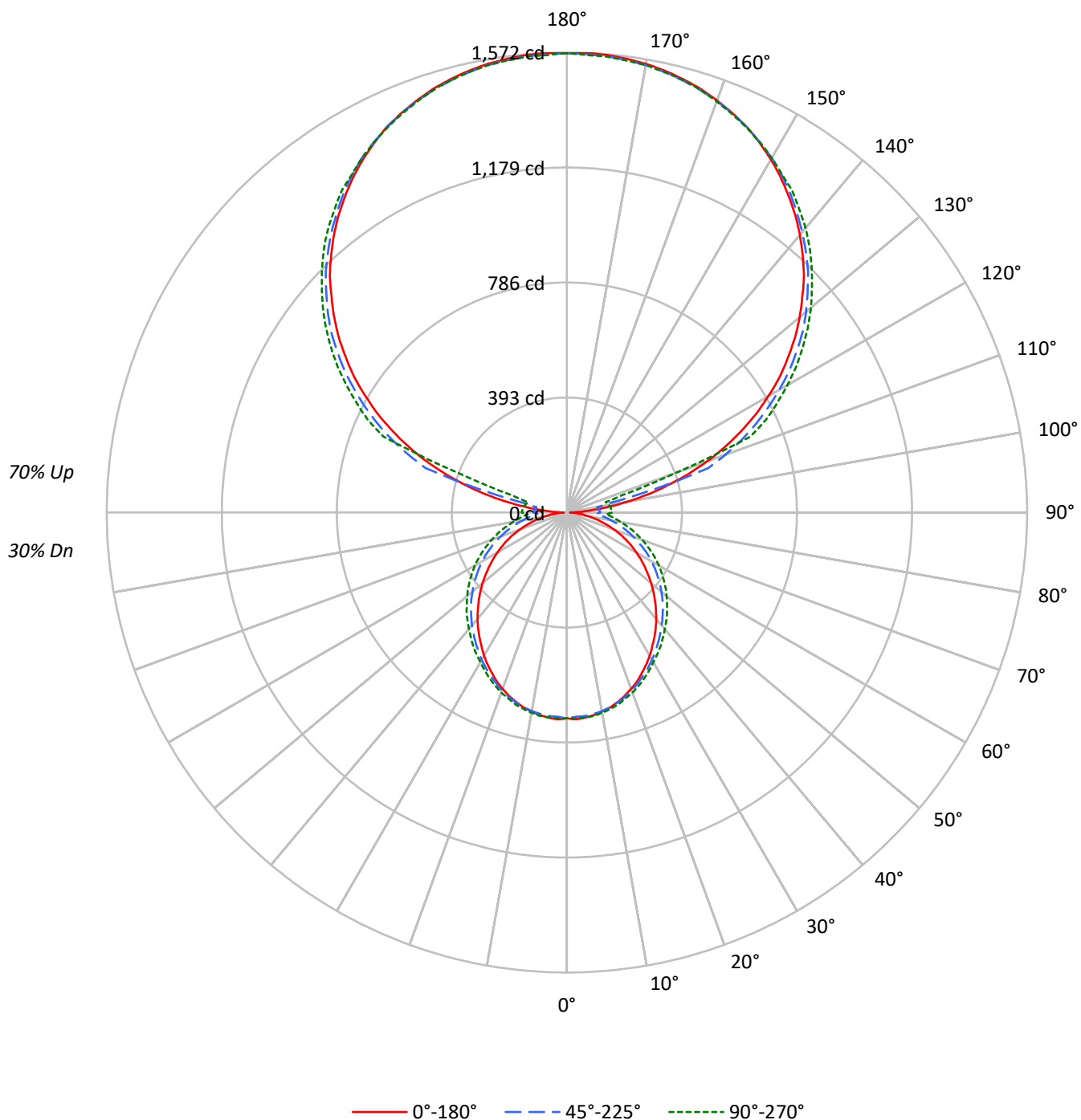
Lumens per Lamp: N/A
Luminaire Lumens: 7152.0 lumens
Efficiency: N/A
Efficacy: 121.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	102	102	102	102	92	92	92	92	72	72	72	55	55	55	38	38	38
1	93	88	84	81	83	79	76	73	62	60	58	47	45	44	33	32	31
2	84	77	70	65	75	69	64	59	54	51	47	41	38	36	28	27	25
3	77	67	60	54	68	60	54	49	48	43	39	36	33	30	25	23	21
4	70	59	51	45	62	53	47	41	42	37	33	32	28	26	22	20	18
5	64	52	44	39	57	47	40	35	37	32	29	28	25	22	20	18	16
6	59	47	39	33	52	42	35	30	34	28	25	25	22	19	18	16	14
7	54	42	34	29	48	38	31	26	30	25	22	23	19	17	16	14	12
8	50	38	31	25	45	34	28	23	28	23	19	21	17	15	15	13	11
9	47	35	27	22	42	31	25	21	25	20	17	19	16	13	14	11	10
10	43	32	25	20	39	29	22	18	23	18	15	18	14	12	13	10	9

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

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.7	0.9
10°-20°	190.2	2.7
20°-30°	284.5	4.0
30°-40°	339.6	4.7
40°-50°	355.4	5.0
50°-60°	333.5	4.7
60°-70°	278.5	3.9
70°-80°	199.2	2.8
80°-90°	121.6	1.7
90°-100°	129.8	1.8
100°-110°	322.4	4.5
110°-120°	692.3	9.7
120°-130°	853.3	11.9
130°-140°	898.7	12.6
140°-150°	833.5	11.7
150°-160°	670.8	9.4
160°-170°	432.9	6.1
170°-180°	149.2	2.1
0°-30°	541.4	7.6
0°-40°	881.0	12.3
0°-60°	1569.9	22.0
0°-90°	2169.2	30.3
90°-120°	1144.5	16.0
90°-150°	3730.0	52.2
90°-180°	4983.0	69.7
0°-180°	7152.0	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°	11	60	115	145	155	11
95°	80	62	112	144	152	92
105°	354	385	313	128	137	375
115°	656	672	710	740	751	648
125°	921	930	957	976	984	823
135°	1145	1152	1165	1182	1182	882
145°	1321	1328	1330	1339	1342	827
155°	1454	1452	1453	1459	1452	670
165°	1533	1530	1529	1538	1530	433
175°	1570	1564	1565	1573	1564	149
180°	1570	1570	1570	1570	1570	

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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°	11.2	60.3	114.6	145.3	155.3
92.5°	36.0	61.9	110.8	144.2	152.2
95°	79.5	61.6	112.0	143.9	151.6
97.5°	137.1	132.0	108.6	140.8	149.7
100°	204.0	251.8	105.2	136.7	145.5
102.5°	280.1	316.8	148.4	131.3	141.3
105°	353.6	384.8	312.9	127.9	137.1
107.5°	431.0	457.6	506.5	347.6	201.8
110°	508.3	531.5	574.9	556.4	395.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	583.0	601.8	643.8	673.5	678.0
115°	655.6	671.8	709.9	740.0	750.8
117.5°	727.9	742.3	774.1	801.9	809.1
120°	793.7	808.0	836.8	863.7	869.1
122.5°	861.3	871.0	899.5	922.1	928.7
125°	921.2	930.5	957.4	975.8	983.5
127.5°	981.8	990.3	1015.4	1034.2	1037.2
130°	1037.8	1046.3	1066.4	1085.5	1087.8
132.5°	1090.6	1099.9	1114.9	1133.4	1135.3
135°	1145.4	1151.7	1164.8	1182.1	1182.4
137.5°	1192.1	1200.7	1208.3	1226.5	1227.9
140°	1238.0	1245.0	1250.8	1267.0	1268.4
142.5°	1281.2	1287.3	1290.8	1304.3	1304.6
145°	1320.8	1328.2	1330.5	1338.9	1342.0
147.5°	1358.5	1364.3	1366.6	1371.3	1368.5
150°	1393.5	1397.0	1399.3	1401.6	1399.6
152.5°	1424.9	1426.1	1427.3	1431.9	1426.1
155°	1454.1	1451.8	1452.9	1458.8	1451.8
157.5°	1477.4	1477.4	1476.3	1483.2	1473.9
160°	1498.4	1497.2	1496.1	1503.1	1494.9
162.5°	1518.2	1514.7	1513.6	1521.7	1514.7
165°	1533.4	1529.9	1528.7	1538.1	1529.9
167.5°	1546.2	1541.6	1541.6	1550.9	1541.6
170°	1556.7	1552.0	1552.0	1561.4	1552.0
172.5°	1563.7	1557.9	1559.0	1568.4	1557.9
175°	1569.5	1563.7	1564.9	1573.0	1563.7
177.5°	1571.9	1566.0	1567.2	1576.5	1564.9
180°	1569.5	1569.5	1569.5	1569.5	1569.5

(END OF REPORT)