

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: P1012561

Luminaire Tested: S123RDIP-B560D1025UB30-4F0-XX-W2A-F

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012561
REPORT IS A COMBINATION OF REPORTS P993338 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-B560D1025UB30-4F0-XX-W2A-F
Description: Define 3 Regressed Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589}
{m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

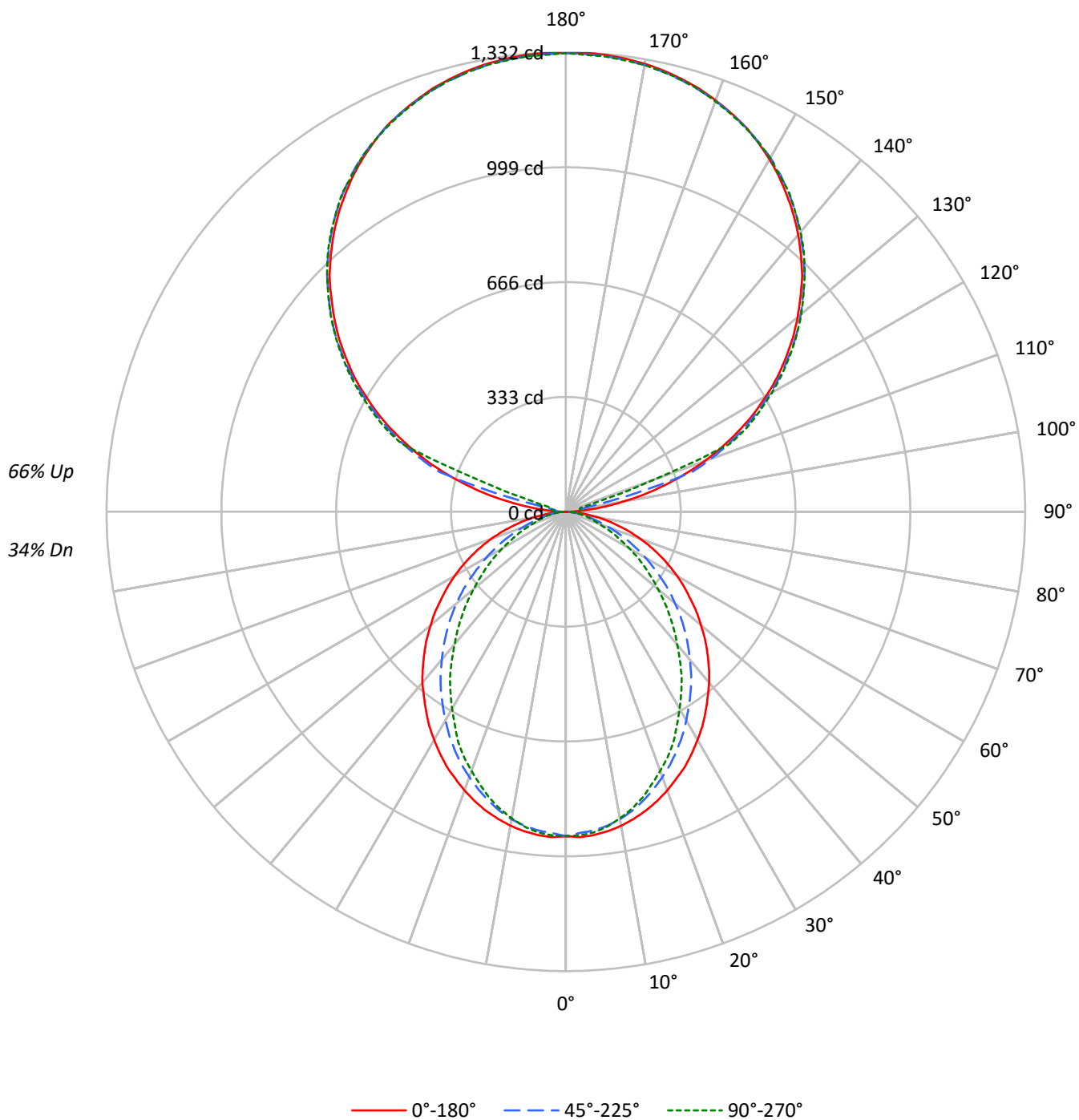
Lumens per Lamp: N/A
Luminaire Lumens: 6182.0 lumens
Efficiency: N/A
Efficacy: 117.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 52.5
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	75	75	75	58	58	58	42	42	42
1	95	90	87	83	85	82	79	76	66	64	62	51	50	48	37	36	36
2	86	79	73	68	78	72	67	63	58	54	51	45	43	41	33	32	30
3	79	70	63	57	71	63	57	52	51	47	43	40	37	35	29	28	26
4	72	62	54	48	65	56	50	45	45	41	37	36	32	30	26	24	23
5	66	55	47	41	60	50	43	38	41	36	32	32	29	26	24	22	20
6	61	49	42	36	55	45	38	33	37	32	28	29	25	23	22	19	18
7	56	44	37	31	51	41	34	29	33	28	25	26	23	20	20	17	16
8	52	40	33	28	47	37	30	26	30	25	22	24	20	18	18	16	14
9	49	37	30	25	44	34	27	23	28	23	19	22	19	16	17	14	13
10	45	34	27	22	41	31	25	20	25	21	17	20	17	14	16	13	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10125	10125	10125
5°	10141	9766	9740
10°	10061	9399	9214
15°	9930	8946	8638
20°	9759	8451	7994
25°	9583	7939	7384
30°	9356	7393	6663
35°	9123	6857	6006
40°	8903	6275	5281
45°	8621	5706	4629
50°	8311	5098	3953
55°	7989	4447	3335
60°	7682	3780	2706
65°	7284	3096	2113
70°	6785	2341	1510
75°	6063	1586	1196
80°	5179	1103	838
85°	3881	596	439

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8621 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.4	1.4
10°-20°	246.0	4.0
20°-30°	354.2	5.7
30°-40°	398.8	6.5
40°-50°	381.5	6.2
50°-60°	312.3	5.1
60°-70°	210.6	3.4
70°-80°	105.6	1.7
80°-90°	30.3	0.5
90°-100°	46.9	0.8
100°-110°	226.7	3.7
110°-120°	555.6	9.0
120°-130°	705.4	11.4
130°-140°	753.5	12.2
140°-150°	704.6	11.4
150°-160°	568.4	9.2
160°-170°	366.8	5.9
170°-180°	126.4	2.0
0°-30°	688.6	11.1
0°-40°	1087.4	17.6
0°-60°	1781.2	28.8
0°-90°	2127.7	34.4
90°-120°	829.3	13.4
90°-150°	2992.8	48.4
90°-180°	4054.0	65.6
0°-180°	6182.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	941	941	941	941	941	
5°	941	937	928	934	933	89
15°	897	889	867	864	858	253
25°	816	797	762	746	738	375
35°	706	679	632	599	585	442
45°	580	546	488	444	426	448
55°	441	404	339	294	279	395
65°	301	259	200	162	154	298
75°	159	123	81	73	72	170
85°	40	24	21	20	20	44
90°	1	11	24	28	30	6
95°	60	20	31	38	38	72
105°	294	305	216	42	44	312
115°	552	558	567	577	581	545
125°	779	786	790	792	794	696
135°	969	975	979	982	979	746
145°	1118	1125	1127	1129	1129	700
155°	1232	1230	1231	1236	1230	568
165°	1299	1296	1295	1303	1296	367
175°	1330	1325	1326	1333	1325	127
180°	1330	1330	1330	1330	1330	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	940.6	940.6	940.6	940.6	940.6
2.5°	944.4	941.4	932.2	940.6	939.1
5°	940.6	936.8	927.6	934.5	933.0
7.5°	933.7	929.9	918.5	923.1	920.8
10°	924.6	919.2	905.5	906.3	902.5
12.5°	911.6	905.5	888.0	887.2	882.6
15°	897.1	888.7	867.4	863.6	858.2
17.5°	879.6	870.4	843.7	836.1	828.5
20°	859.7	847.5	818.5	808.6	799.5
22.5°	837.6	823.1	791.8	778.9	770.5
25°	816.3	797.2	762.1	746.1	737.7
27.5°	790.3	769.7	731.6	710.2	697.3
30°	763.6	740.7	698.0	672.1	659.9
32.5°	736.9	710.2	664.5	635.5	622.5
35°	706.4	678.9	631.6	598.8	585.1
37.5°	675.9	646.1	596.6	559.9	543.2
40°	646.9	613.3	559.2	519.5	502.0
42.5°	614.1	580.5	524.1	479.8	464.6
45°	580.5	546.2	487.5	444.0	425.7
47.5°	547.7	509.6	451.6	404.3	388.3
50°	511.1	475.3	413.5	366.2	348.6
52.5°	478.3	438.6	377.6	328.0	312.8
55°	440.9	403.6	338.7	294.5	279.2
57.5°	407.4	366.9	301.3	259.4	246.4
60°	372.3	330.3	267.0	225.8	212.8
62.5°	337.2	295.2	231.9	193.8	180.0
65°	301.3	259.4	199.9	162.5	154.1
67.5°	265.5	222.8	164.8	136.6	127.4
70°	230.4	189.2	135.8	109.1	100.7
72.5°	195.3	154.9	107.6	87.0	84.7
75°	159.4	122.8	80.9	73.2	71.7
77.5°	126.6	93.1	63.3	58.7	57.2
80°	95.4	64.1	48.1	45.8	44.2
82.5°	65.6	39.7	34.3	32.0	32.0
85°	40.4	23.6	21.4	19.8	19.8
87.5°	18.3	9.9	9.9	9.2	8.4
90°	1.0	10.9	23.7	27.7	29.6
92.5°	22.7	16.8	25.7	32.6	33.6
95°	60.3	19.8	30.6	37.5	37.5
97.5°	109.7	82.0	31.6	39.5	40.5
100°	167.0	186.7	32.6	40.5	41.5
102.5°	232.2	245.0	73.1	40.5	42.5
105°	294.4	305.3	216.4	41.5	43.5
107.5°	360.6	369.5	384.3	232.2	102.8
110°	426.8	434.7	445.6	413.0	271.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	490.1	497.0	507.9	516.7	514.8
115°	552.3	558.2	567.1	577.0	581.0
117.5°	613.6	620.5	625.4	633.3	634.3
120°	669.9	678.8	681.8	689.7	689.7
122.5°	727.2	734.1	738.1	743.0	744.0
125°	778.6	786.5	790.4	792.4	794.4
127.5°	830.0	837.9	842.8	845.8	843.8
130°	877.4	885.3	889.2	893.2	891.2
132.5°	922.8	930.7	933.7	937.7	934.7
135°	969.3	975.2	979.2	982.1	979.2
137.5°	1008.8	1016.7	1018.7	1023.6	1021.6
140°	1048.3	1054.2	1057.2	1061.2	1059.2
142.5°	1084.9	1090.8	1093.8	1096.7	1093.8
145°	1118.5	1125.4	1127.4	1129.3	1129.3
147.5°	1151.1	1156.0	1158.0	1160.0	1155.0
150°	1180.7	1183.7	1185.7	1187.6	1184.7
152.5°	1207.4	1208.4	1209.4	1213.3	1208.4
155°	1232.1	1230.1	1231.1	1236.0	1230.1
157.5°	1251.9	1251.9	1250.9	1256.8	1248.9
160°	1269.6	1268.7	1267.7	1273.6	1266.7
162.5°	1286.4	1283.5	1282.5	1289.4	1283.5
165°	1299.3	1296.3	1295.3	1303.2	1296.3
167.5°	1310.1	1306.2	1306.2	1314.1	1306.2
170°	1319.0	1315.1	1315.1	1323.0	1315.1
172.5°	1325.0	1320.0	1321.0	1328.9	1320.0
175°	1329.9	1325.0	1326.0	1332.9	1325.0
177.5°	1331.9	1326.9	1327.9	1335.8	1326.0
180°	1329.9	1329.9	1329.9	1329.9	1329.9

(END OF REPORT)