

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: P1010924

Luminaire Tested: S123RDIP-B560D1025UB2750-4F0-XX-W2A-F_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1010924
REPORT IS A COMBINATION OF REPORTS P993330 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-B560D1025UB2750-4F0-XX-W2A-F_2700K
Description: Define 3 Regressed Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473}
{m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

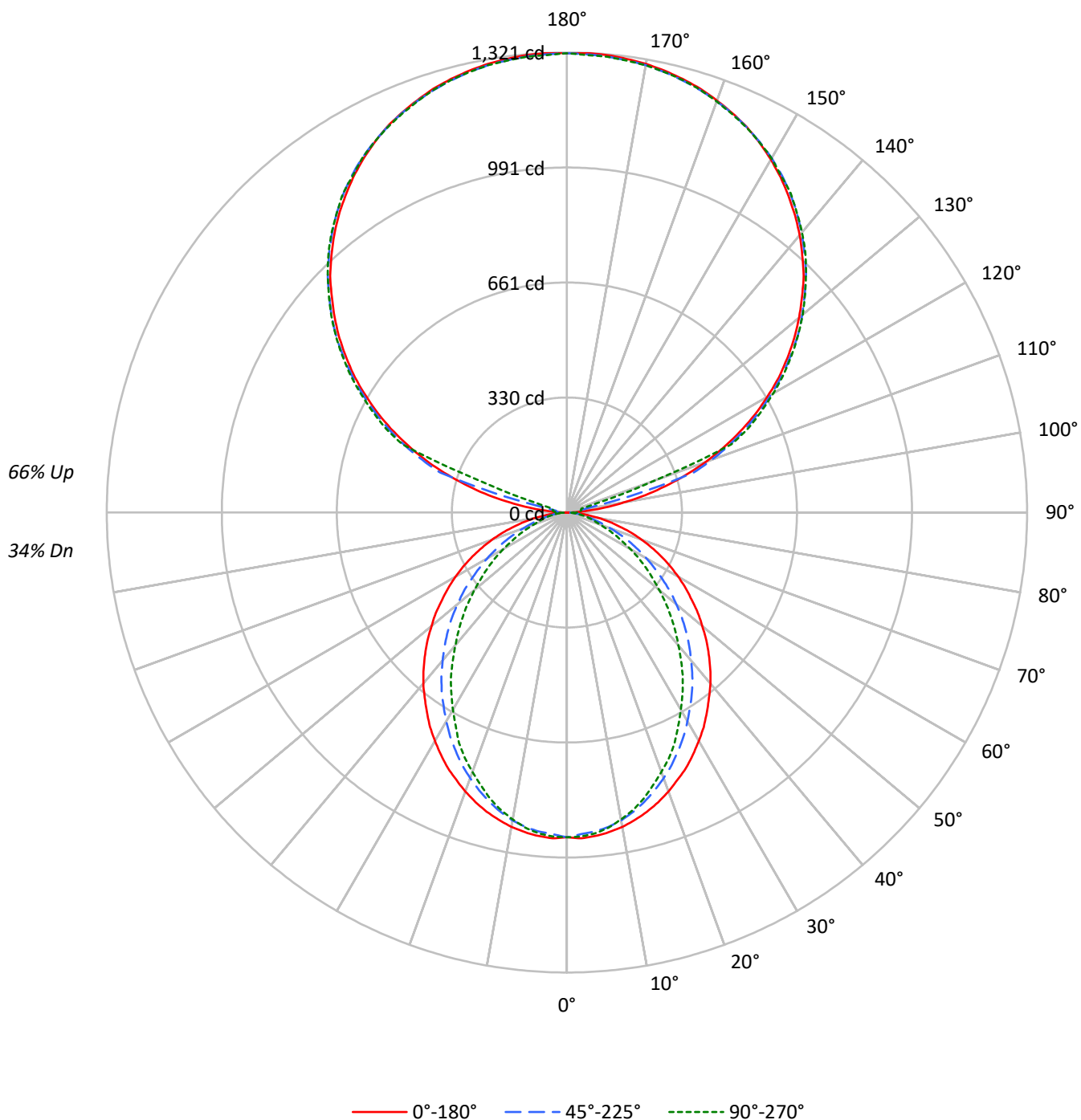
Lumens per Lamp: N/A
Luminaire Lumens: 6130.0 lumens
Efficiency: N/A
Efficacy: 116.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 52.5
Input Voltage (V): 120
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
RCR																	
0	103	103	103	103	93	93	93	93	75	75	75		58	58	58		42
1	95	90	87	83	85	82	79	76	66	64	62		51	50	48		37
2	86	79	73	68	78	72	67	63	58	54	51		45	43	41		33
3	79	70	63	57	71	63	57	52	51	47	43		40	37	35		29
4	72	62	54	48	65	56	50	45	45	41	37		36	32	30		26
5	66	55	47	41	60	50	43	38	41	36	32		32	29	26		24
6	61	49	42	36	55	45	38	33	37	32	28		29	25	23		22
7	56	44	37	31	51	41	34	29	33	28	25		26	23	20		20
8	52	40	33	28	47	37	30	26	30	25	22		24	20	18		18
9	49	37	30	25	44	34	27	23	28	23	19		22	19	16		17
10	45	34	27	22	41	31	25	20	25	21	17		20	17	14		16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10038	10038	10038
5°	10055	9684	9658
10°	9977	9319	9136
15°	9846	8869	8564
20°	9677	8380	7926
25°	9501	7871	7321
30°	9277	7330	6607
35°	9045	6799	5956
40°	8827	6221	5236
45°	8548	5657	4590
50°	8241	5055	3920
55°	7922	4409	3306
60°	7616	3748	2683
65°	7223	3070	2095
70°	6726	2320	1496
75°	6014	1572	1186
80°	5130	1093	833
85°	3852	590	437

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8548 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.7	1.4
10°-20°	243.9	4.0
20°-30°	351.2	5.7
30°-40°	395.5	6.5
40°-50°	378.3	6.2
50°-60°	309.7	5.1
60°-70°	208.8	3.4
70°-80°	104.7	1.7
80°-90°	30.0	0.5
90°-100°	46.5	0.8
100°-110°	224.8	3.7
110°-120°	551.0	9.0
120°-130°	699.5	11.4
130°-140°	747.2	12.2
140°-150°	698.7	11.4
150°-160°	563.6	9.2
160°-170°	363.7	5.9
170°-180°	125.3	2.0
0°-30°	682.7	11.1
0°-40°	1078.2	17.6
0°-60°	1766.1	28.8
0°-90°	2109.6	34.4
90°-120°	822.3	13.4
90°-150°	2967.7	48.4
90°-180°	4020.0	65.6
0°-180°	6130.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	933	933	933	933	933	
5°	933	929	920	927	925	88
15°	890	881	860	856	851	251
25°	809	790	756	740	731	372
35°	700	673	626	594	580	438
45°	576	542	483	440	422	444
55°	437	400	336	292	277	392
65°	299	257	198	161	153	296
75°	158	122	80	73	71	168
85°	40	23	21	20	20	44
90°	1	11	24	27	29	6
95°	60	20	30	37	37	71
105°	292	303	215	41	43	310
115°	548	554	562	572	576	541
125°	772	780	784	786	788	690
135°	961	967	971	974	971	740
145°	1109	1116	1118	1120	1120	694
155°	1222	1220	1221	1226	1220	563
165°	1288	1286	1284	1292	1286	364
175°	1319	1314	1315	1322	1314	126
180°	1319	1319	1319	1319	1319	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	932.6	932.6	932.6	932.6	932.6
2.5°	936.4	933.4	924.3	932.6	931.1
5°	932.6	928.9	919.8	926.6	925.1
7.5°	925.8	922.1	910.7	915.2	913.0
10°	916.8	911.5	897.8	898.6	894.8
12.5°	903.9	897.8	880.4	879.7	875.2
15°	889.5	881.2	860.0	856.2	850.9
17.5°	872.1	863.1	836.6	829.0	821.4
20°	852.5	840.4	811.6	801.8	792.7
22.5°	830.5	816.2	785.1	772.3	764.0
25°	809.3	790.4	755.6	739.8	731.4
27.5°	783.6	763.2	725.4	704.2	691.3
30°	757.2	734.5	692.1	666.4	654.3
32.5°	730.7	704.2	658.8	630.1	617.2
35°	700.4	673.2	626.3	593.8	580.2
37.5°	670.2	640.7	591.5	555.2	538.6
40°	641.4	608.1	554.4	515.1	497.7
42.5°	608.9	575.6	519.6	475.8	460.6
45°	575.6	541.6	483.3	440.2	422.1
47.5°	543.1	505.3	447.8	400.9	385.0
50°	506.8	471.2	410.0	363.1	345.7
52.5°	474.3	434.9	374.4	325.3	310.1
55°	437.2	400.1	335.8	292.0	276.8
57.5°	403.9	363.8	298.8	257.2	244.3
60°	369.1	327.5	264.7	223.9	211.0
62.5°	334.3	292.7	229.9	192.1	178.5
65°	298.8	257.2	198.2	161.1	152.8
67.5°	263.2	220.9	163.4	135.4	126.3
70°	228.4	187.6	134.6	108.2	99.8
72.5°	193.6	153.5	106.7	86.2	84.0
75°	158.1	121.8	80.2	72.6	71.1
77.5°	125.6	92.3	62.8	58.2	56.7
80°	94.5	63.5	47.7	45.4	43.9
82.5°	65.1	39.3	34.0	31.8	31.8
85°	40.1	23.4	21.2	19.7	19.7
87.5°	18.2	9.8	9.8	9.1	8.3
90°	1.0	10.8	23.5	27.4	29.4
92.5°	22.5	16.7	25.5	32.3	33.3
95°	59.8	19.6	30.4	37.2	37.2
97.5°	108.8	81.3	31.4	39.2	40.2
100°	165.6	185.2	32.3	40.2	41.2
102.5°	230.2	243.0	72.5	40.2	42.1
105°	292.0	302.7	214.6	41.2	43.1
107.5°	357.6	366.4	381.1	230.2	101.9
110°	423.3	431.1	441.9	409.5	269.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	486.0	492.8	503.6	512.4	510.5
115°	547.7	553.6	562.4	572.2	576.1
117.5°	608.4	615.3	620.2	628.0	629.0
120°	664.3	673.1	676.0	683.9	683.9
122.5°	721.1	728.0	731.9	736.8	737.8
125°	772.1	779.9	783.8	785.8	787.7
127.5°	823.0	830.8	835.7	838.7	836.7
130°	870.0	877.9	881.8	885.7	883.7
132.5°	915.1	922.9	925.9	929.8	926.9
135°	961.2	967.0	970.9	973.9	970.9
137.5°	1000.3	1008.2	1010.1	1015.0	1013.1
140°	1039.5	1045.4	1048.3	1052.3	1050.3
142.5°	1075.8	1081.7	1084.6	1087.5	1084.6
145°	1109.1	1116.0	1117.9	1119.9	1119.9
147.5°	1141.4	1146.3	1148.3	1150.2	1145.3
150°	1170.8	1173.8	1175.7	1177.7	1174.7
152.5°	1197.3	1198.3	1199.2	1203.2	1198.3
155°	1221.8	1219.8	1220.8	1225.7	1219.8
157.5°	1241.4	1241.4	1240.4	1246.3	1238.4
160°	1259.0	1258.0	1257.0	1262.9	1256.1
162.5°	1275.7	1272.7	1271.7	1278.6	1272.7
165°	1288.4	1285.5	1284.5	1292.3	1285.5
167.5°	1299.2	1295.3	1295.3	1303.1	1295.3
170°	1308.0	1304.1	1304.1	1311.9	1304.1
172.5°	1313.9	1309.0	1309.9	1317.8	1309.0
175°	1318.8	1313.9	1314.8	1321.7	1313.9
177.5°	1320.7	1315.8	1316.8	1324.6	1314.8
180°	1318.8	1318.8	1318.8	1318.8	1318.8

(END OF REPORT)