

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: P1012586

Luminaire Tested: S123RDIP-B560D1195UB27-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012586
REPORT IS A COMBINATION OF REPORTS P993363 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-B560D1195UB27-4F0-XX-W2A-F1
Description: Define 3 Regressed Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473}
{m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

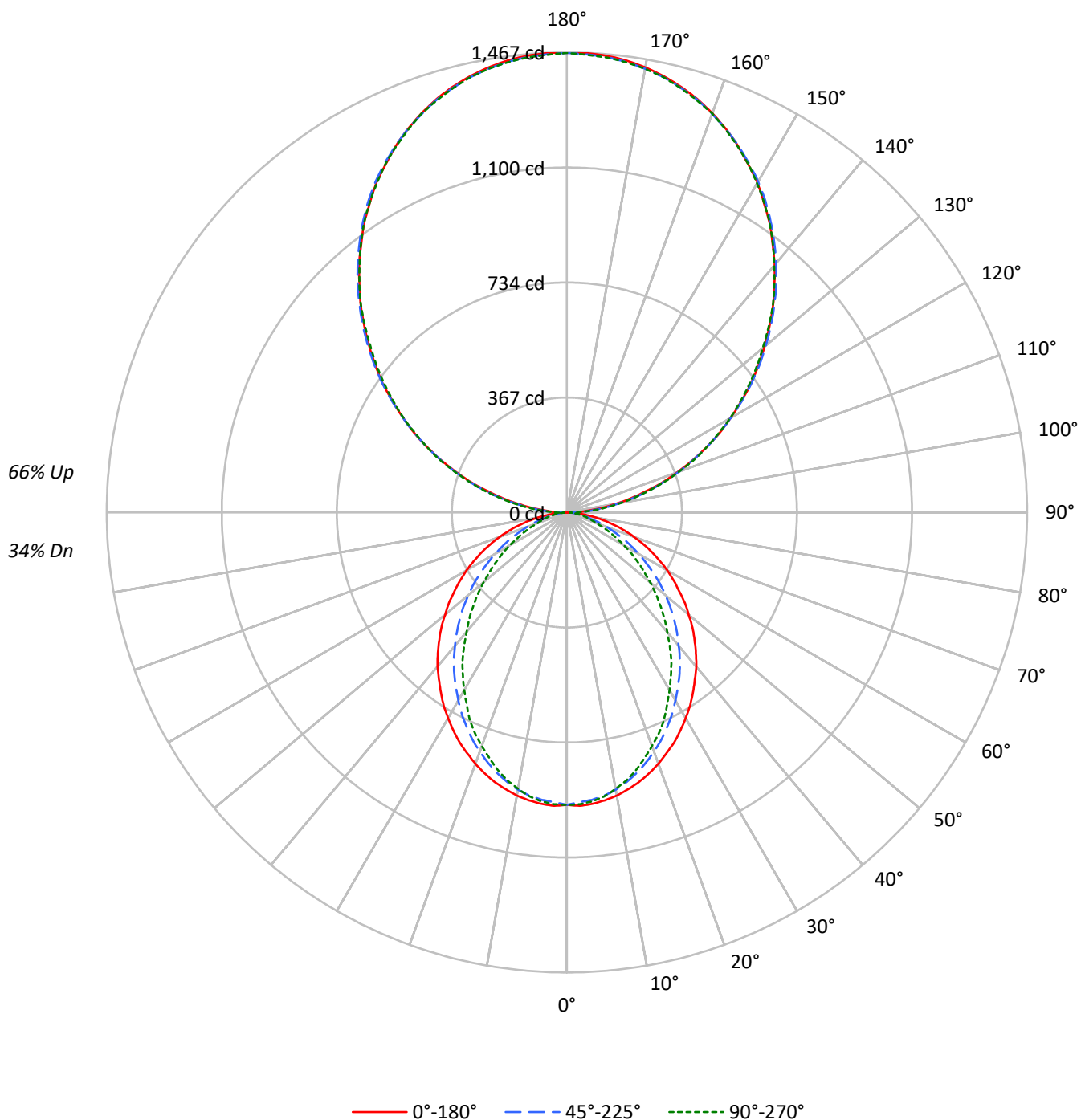
Lumens per Lamp: N/A
Luminaire Lumens: 6171.0 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 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	75	75	75	57	57	57	42	42	42
1	94	90	87	83	85	82	79	76	66	63	62	51	49	48	37	36	36
2	86	79	73	68	78	72	67	62	58	54	51	45	43	40	33	31	30
3	79	70	63	57	71	63	57	52	51	47	43	40	37	34	29	28	26
4	72	62	54	48	65	56	50	44	45	41	37	36	32	30	26	24	23
5	66	55	47	41	59	50	43	38	41	36	32	32	28	26	24	22	20
6	61	49	41	36	55	45	38	33	37	32	28	29	25	23	22	19	17
7	56	44	37	31	51	41	34	29	33	28	24	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	48	37	29	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	11

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	6.4
40°-50°	378.3	6.1
50°-60°	309.7	5.0
60°-70°	208.8	3.4
70°-80°	104.7	1.7
80°-90°	30.5	0.5
90°-100°	94.3	1.5
100°-110°	285.6	4.6
110°-120°	486.1	7.9
120°-130°	639.5	10.4
130°-140°	718.9	11.6
140°-150°	706.7	11.5
150°-160°	595.0	9.6
160°-170°	396.1	6.4
170°-180°	138.7	2.2
0°-30°	682.7	11.1
0°-40°	1078.2	17.5
0°-60°	1766.1	28.6
0°-90°	2110.1	34.2
90°-120°	866.0	14.0
90°-150°	2931.1	47.5
90°-180°	4061.0	65.8
0°-180°	6171.0	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	13	28	32	34	8
95°	68	76	85	90	90	75
105°	259	261	272	272	274	277
115°	489	493	490	492	490	484
125°	716	720	717	713	708	639
135°	929	936	935	930	928	716
145°	1127	1129	1133	1132	1127	704
155°	1291	1291	1292	1296	1288	594
165°	1406	1402	1402	1409	1401	396
175°	1462	1458	1458	1464	1456	139
180°	1466	1466	1466	1466	1466	

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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°	1.2	12.7	27.6	32.2	34.5
92.5°	34.5	41.4	48.4	51.8	49.5
95°	67.9	76.0	85.2	89.8	89.8
97.5°	111.7	117.4	124.3	130.1	128.9
100°	156.6	163.5	169.2	172.7	175.0
102.5°	208.4	211.8	219.9	223.4	222.2
105°	259.0	261.3	271.7	271.7	274.0
107.5°	318.9	320.1	324.7	328.1	327.0
110°	374.2	376.5	378.8	383.4	381.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	431.7	432.9	432.9	438.6	438.6
115°	489.3	492.8	490.5	491.6	490.5
117.5°	548.0	549.2	546.9	546.9	543.4
120°	602.1	609.0	603.3	602.1	599.8
122.5°	658.5	663.1	660.8	657.4	653.9
125°	716.1	719.6	717.3	712.7	708.0
127.5°	769.1	776.0	773.7	766.8	762.2
130°	822.0	831.2	827.8	823.2	815.1
132.5°	875.0	884.2	881.9	876.1	870.4
135°	929.1	936.0	934.9	930.2	927.9
137.5°	978.6	984.4	987.8	982.1	978.6
140°	1030.4	1036.2	1037.3	1036.2	1028.1
142.5°	1077.6	1083.4	1085.7	1084.5	1078.8
145°	1127.1	1129.4	1132.9	1131.7	1127.1
147.5°	1169.7	1174.3	1177.8	1177.8	1170.9
150°	1214.6	1216.9	1219.2	1219.2	1212.3
152.5°	1251.5	1254.9	1256.1	1258.4	1252.6
155°	1290.6	1290.6	1291.8	1296.4	1288.3
157.5°	1324.0	1322.8	1324.0	1328.6	1321.7
160°	1355.1	1352.8	1352.8	1358.5	1353.9
162.5°	1382.7	1379.2	1380.4	1386.2	1378.1
165°	1405.7	1402.3	1402.3	1409.2	1401.1
167.5°	1425.3	1420.7	1421.8	1428.8	1421.8
170°	1441.4	1436.8	1436.8	1444.9	1436.8
172.5°	1454.1	1449.5	1449.5	1456.4	1448.3
175°	1462.1	1457.5	1457.5	1464.4	1456.4
177.5°	1466.7	1462.1	1462.1	1469.1	1461.0
180°	1465.6	1465.6	1465.6	1465.6	1465.6

(END OF REPORT)