

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: P1012598

Luminaire Tested: S123RDIP-B560D1195UB35-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012598
REPORT IS A COMBINATION OF REPORTS P993385 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-B560D1195UB35-4F0-XX-W2A-F1
Description: Define 3 Regressed Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721}
{m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

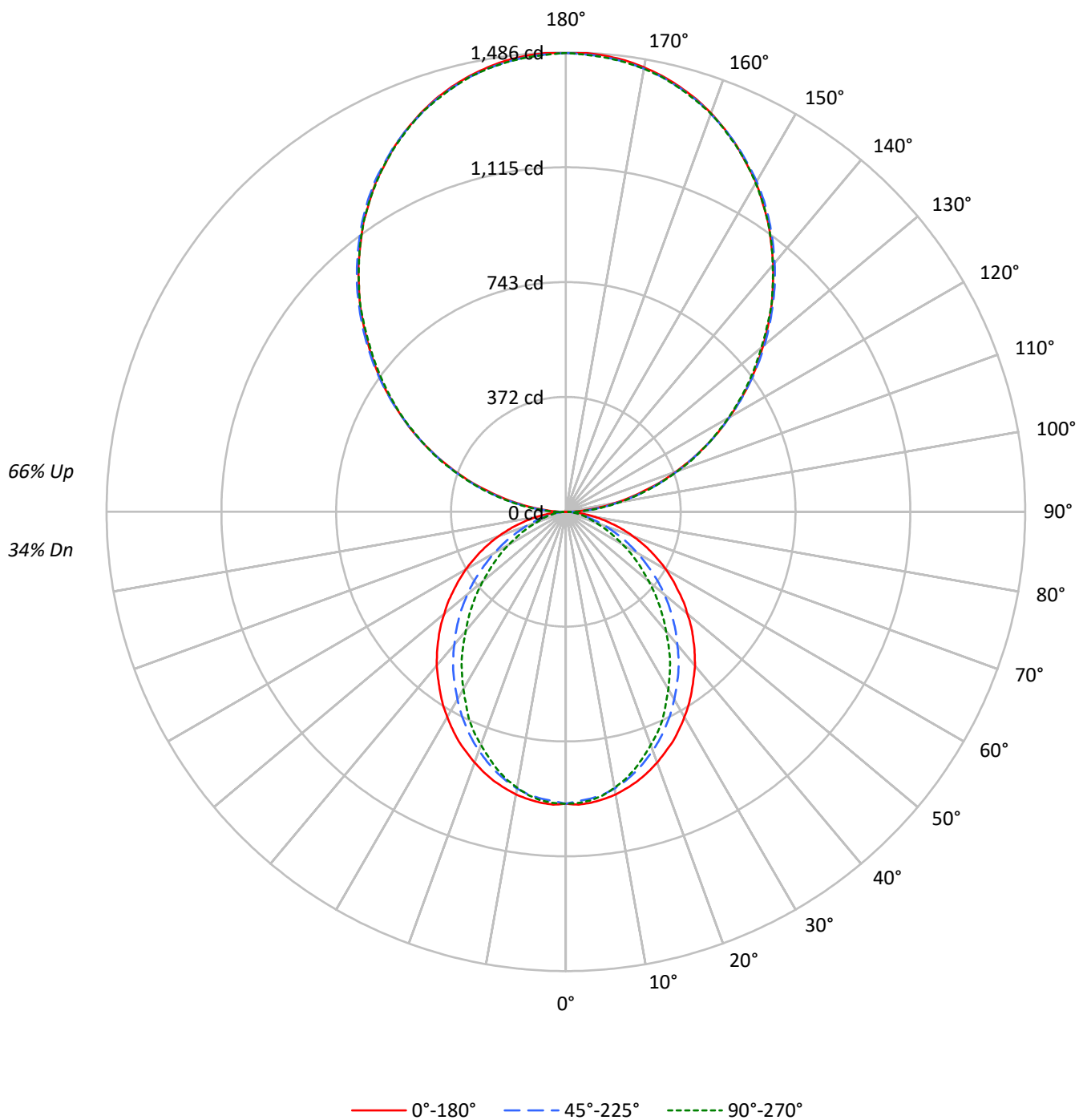
Lumens per Lamp: N/A
Luminaire Lumens: 6250.0 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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°	10168	10168	10168
5°	10184	9808	9781
10°	10104	9440	9253
15°	9972	8983	8675
20°	9801	8487	8028
25°	9623	7972	7415
30°	9396	7425	6691
35°	9161	6886	6032
40°	8940	6301	5303
45°	8658	5730	4648
50°	8347	5119	3970
55°	8023	4466	3349
60°	7715	3796	2718
65°	7315	3108	2122
70°	6814	2351	1516
75°	6090	1592	1201
80°	5201	1107	842
85°	3900	599	441

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8658 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.8	1.4
10°-20°	247.0	4.0
20°-30°	355.7	5.7
30°-40°	400.5	6.4
40°-50°	383.1	6.1
50°-60°	313.6	5.0
60°-70°	211.5	3.4
70°-80°	106.1	1.7
80°-90°	30.9	0.5
90°-100°	95.6	1.5
100°-110°	289.2	4.6
110°-120°	492.4	7.9
120°-130°	647.7	10.4
130°-140°	728.0	11.6
140°-150°	715.8	11.5
150°-160°	602.6	9.6
160°-170°	401.2	6.4
170°-180°	140.5	2.2
0°-30°	691.5	11.1
0°-40°	1092.0	17.5
0°-60°	1788.8	28.6
0°-90°	2137.1	34.2
90°-120°	877.1	14.0
90°-150°	2968.6	47.5
90°-180°	4113.0	65.8
0°-180°	6250.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	945	945	945	945	945	
5°	945	941	932	938	937	90
15°	901	892	871	867	862	254
25°	820	801	765	749	741	377
35°	709	682	634	601	588	444
45°	583	548	490	446	428	450
55°	443	405	340	296	280	397
65°	303	260	201	163	155	299
75°	160	123	81	74	72	171
85°	41	24	22	20	20	44
90°	1	13	28	33	35	8
95°	69	77	86	91	91	76
105°	262	265	275	275	278	281
115°	496	499	497	498	497	490
125°	725	729	726	722	717	647
135°	941	948	947	942	940	725
145°	1142	1144	1147	1146	1142	713
155°	1307	1307	1308	1313	1305	602
165°	1424	1420	1420	1427	1419	402
175°	1481	1476	1476	1483	1475	141
180°	1484	1484	1484	1484	1484	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	944.6	944.6	944.6	944.6	944.6
2.5°	948.4	945.4	936.2	944.6	943.1
5°	944.6	940.8	931.6	938.5	936.9
7.5°	937.7	933.9	922.4	927.0	924.7
10°	928.5	923.1	909.4	910.1	906.3
12.5°	915.5	909.4	891.7	891.0	886.4
15°	900.9	892.5	871.0	867.2	861.9
17.5°	883.3	874.1	847.3	839.6	832.0
20°	863.4	851.1	822.0	812.1	802.9
22.5°	841.2	826.6	795.2	782.2	773.8
25°	819.7	800.6	765.3	749.2	740.8
27.5°	793.7	773.0	734.7	713.2	700.2
30°	766.9	743.9	701.0	674.9	662.7
32.5°	740.0	713.2	667.3	638.2	625.1
35°	709.4	681.8	634.3	601.4	587.6
37.5°	678.8	648.9	599.1	562.3	545.5
40°	649.6	615.9	561.5	521.7	504.1
42.5°	616.7	583.0	526.3	481.9	466.6
45°	583.0	548.5	489.5	445.9	427.5
47.5°	550.1	511.7	453.5	406.0	389.9
50°	513.3	477.3	415.2	367.7	350.1
52.5°	480.3	440.5	379.2	329.4	314.1
55°	442.8	405.3	340.1	295.7	280.4
57.5°	409.1	368.5	302.6	260.5	247.4
60°	373.9	331.7	268.1	226.8	213.7
62.5°	338.6	296.5	232.9	194.6	180.8
65°	302.6	260.5	200.7	163.2	154.8
67.5°	266.6	223.7	165.5	137.1	127.9
70°	231.4	190.0	136.4	109.6	101.1
72.5°	196.1	155.5	108.0	87.3	85.0
75°	160.1	123.3	81.2	73.5	72.0
77.5°	127.2	93.5	63.6	59.0	57.5
80°	95.8	64.4	48.3	46.0	44.4
82.5°	65.9	39.8	34.5	32.2	32.2
85°	40.6	23.7	21.5	19.9	19.9
87.5°	18.4	10.0	10.0	9.2	8.4
90°	1.2	12.8	28.0	32.6	35.0
92.5°	35.0	42.0	49.0	52.5	50.1
95°	68.8	77.0	86.3	90.9	90.9
97.5°	113.1	118.9	125.9	131.8	130.6
100°	158.6	165.6	171.4	174.9	177.2
102.5°	211.1	214.5	222.7	226.2	225.0
105°	262.4	264.7	275.2	275.2	277.5
107.5°	323.0	324.2	328.8	332.3	331.2
110°	379.0	381.3	383.6	388.3	386.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	437.3	438.4	438.4	444.3	444.3
115°	495.6	499.1	496.7	497.9	496.7
117.5°	555.0	556.2	553.9	553.9	550.4
120°	609.8	616.8	611.0	609.8	607.5
122.5°	667.0	671.6	669.3	665.8	662.3
125°	725.3	728.8	726.4	721.8	717.1
127.5°	778.9	785.9	783.6	776.6	771.9
130°	832.5	841.9	838.4	833.7	825.5
132.5°	886.2	895.5	893.2	887.3	881.5
135°	941.0	948.0	946.8	942.1	939.8
137.5°	991.1	997.0	1000.4	994.6	991.1
140°	1043.6	1049.4	1050.6	1049.4	1041.3
142.5°	1091.4	1097.2	1099.6	1098.4	1092.6
145°	1141.5	1143.9	1147.4	1146.2	1141.5
147.5°	1184.7	1189.3	1192.8	1192.8	1185.8
150°	1230.2	1232.5	1234.8	1234.8	1227.8
152.5°	1267.5	1271.0	1272.1	1274.5	1268.6
155°	1307.1	1307.1	1308.3	1312.9	1304.8
157.5°	1340.9	1339.8	1340.9	1345.6	1338.6
160°	1372.4	1370.1	1370.1	1375.9	1371.2
162.5°	1400.4	1396.9	1398.1	1403.9	1395.7
165°	1423.7	1420.2	1420.2	1427.2	1419.1
167.5°	1443.5	1438.9	1440.0	1447.0	1440.0
170°	1459.9	1455.2	1455.2	1463.4	1455.2
172.5°	1472.7	1468.0	1468.0	1475.0	1466.9
175°	1480.9	1476.2	1476.2	1483.2	1475.0
177.5°	1485.5	1480.9	1480.9	1487.8	1479.7
180°	1484.3	1484.3	1484.3	1484.3	1484.3

(END OF REPORT)