

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: P1012229

Luminaire Tested: S123RDIP-B1000D585UB50-4F0-XX-W2A-F

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012229
REPORT IS A COMBINATION OF REPORTS P992876 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-B1000D585UB50-4F0-XX-W2A-F
Description: Define 3 Regressed Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015}
{m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

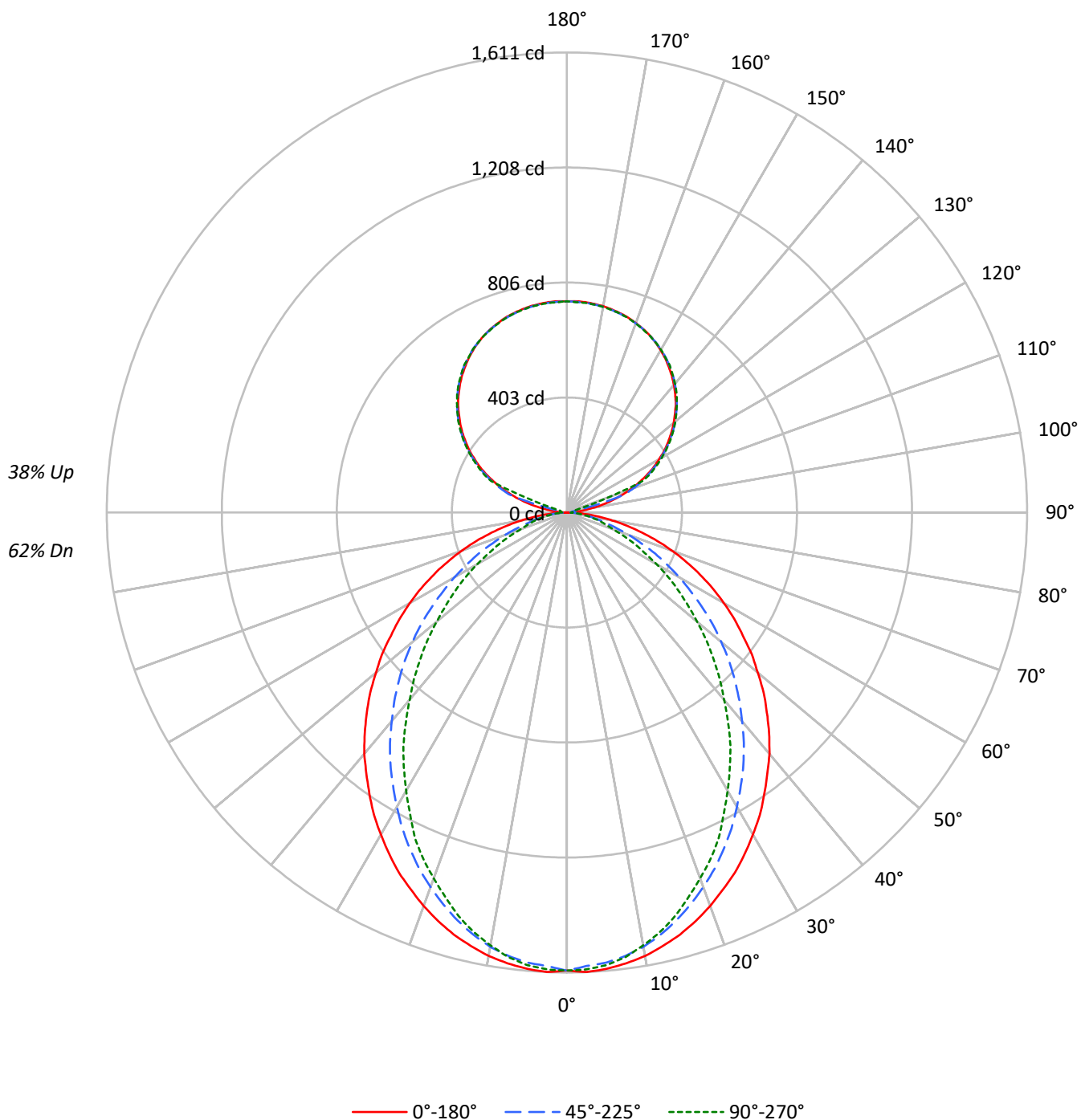
Lumens per Lamp: N/A
Luminaire Lumens: 5880.0 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 62.2
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	110	110	110	110	103	103	103	103	90	90	90	78	78	78	67	67	67
1	101	97	93	89	94	91	87	84	79	77	75	69	67	66	60	58	57
2	92	85	79	74	86	80	74	70	70	66	63	61	58	56	53	51	49
3	84	75	68	62	79	70	64	59	62	57	53	54	51	47	47	44	42
4	77	67	59	53	72	63	56	50	56	50	46	49	44	41	43	39	37
5	71	60	51	45	66	56	49	44	50	44	40	44	39	36	39	35	32
6	66	54	46	40	61	51	43	38	45	39	35	40	35	32	35	31	28
7	61	49	41	35	57	46	39	34	41	35	31	36	32	28	32	28	25
8	57	44	37	31	53	42	35	30	38	32	28	33	29	25	30	26	23
9	53	41	33	28	50	39	32	27	35	29	25	31	26	23	27	24	21
10	49	37	30	25	46	35	29	24	32	26	23	29	24	21	25	22	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17266	17266	17266
5°	17295	16656	16611
10°	17159	16030	15714
15°	16936	15255	14731
20°	16643	14414	13633
25°	16343	13539	12593
30°	15956	12608	11363
35°	15558	11694	10244
40°	15183	10701	9006
45°	14704	9730	7894
50°	14175	8694	6743
55°	13626	7584	5687
60°	13101	6446	4616
65°	12423	5280	3603
70°	11570	3992	2574
75°	10343	2703	2040
80°	8827	1880	1432
85°	6628	1014	749

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14704 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.8	2.6
10°-20°	419.5	7.1
20°-30°	604.0	10.3
30°-40°	680.2	11.6
40°-50°	650.6	11.1
50°-60°	532.6	9.1
60°-70°	359.1	6.1
70°-80°	180.1	3.1
80°-90°	48.6	0.8
90°-100°	26.1	0.4
100°-110°	126.1	2.1
110°-120°	309.0	5.3
120°-130°	392.2	6.7
130°-140°	419.0	7.1
140°-150°	391.8	6.7
150°-160°	316.0	5.4
160°-170°	204.0	3.5
170°-180°	70.3	1.2
0°-30°	1174.3	20.0
0°-40°	1854.5	31.5
0°-60°	3037.7	51.7
0°-90°	3625.5	61.7
90°-120°	461.1	7.8
90°-150°	1664.2	28.3
90°-180°	2255.0	38.4
0°-180°	5880.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1604	1604	1604	1604	1604	
5°	1604	1598	1582	1594	1591	152
15°	1530	1516	1479	1473	1464	431
25°	1392	1360	1300	1272	1258	640
35°	1205	1158	1077	1021	998	754
45°	990	932	831	757	726	764
55°	752	688	578	502	476	674
65°	514	442	341	277	263	509
75°	272	210	138	125	122	290
85°	69	40	36	34	34	76
90°	0	6	13	15	16	6
95°	34	11	17	21	21	40
105°	164	170	120	23	24	174
115°	307	310	315	321	323	303
125°	433	437	440	441	442	387
135°	539	542	544	546	544	415
145°	622	626	627	628	628	389
155°	685	684	685	687	684	316
165°	722	721	720	725	721	204
175°	740	737	737	741	737	70
180°	740	740	740	740	740	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1604.1	1604.1	1604.1	1604.1	1604.1
2.5°	1610.6	1605.4	1589.8	1604.1	1601.5
5°	1604.1	1597.6	1582.0	1593.7	1591.1
7.5°	1592.4	1585.9	1566.4	1574.2	1570.3
10°	1576.8	1567.7	1544.3	1545.6	1539.1
12.5°	1554.7	1544.3	1514.4	1513.1	1505.2
15°	1530.0	1515.7	1479.2	1472.7	1463.6
17.5°	1500.0	1484.4	1438.9	1425.9	1412.9
20°	1466.2	1445.4	1396.0	1379.1	1363.4
22.5°	1428.5	1403.8	1350.4	1328.3	1314.0
25°	1392.1	1359.5	1299.7	1272.4	1258.1
27.5°	1347.8	1312.7	1247.7	1211.2	1189.1
30°	1302.3	1263.3	1190.4	1146.2	1125.4
32.5°	1256.8	1211.2	1133.2	1083.7	1061.6
35°	1204.7	1157.9	1077.2	1021.3	997.9
37.5°	1152.7	1101.9	1017.4	954.9	926.3
40°	1103.2	1046.0	953.6	886.0	856.1
42.5°	1047.3	990.1	893.8	818.3	792.3
45°	990.1	931.5	831.3	757.2	726.0
47.5°	934.1	869.1	770.2	689.5	662.2
50°	871.7	810.5	705.1	624.5	594.6
52.5°	815.7	748.1	644.0	559.4	533.4
55°	752.0	688.2	577.6	502.2	476.2
57.5°	694.7	625.8	513.9	442.3	420.2
60°	634.9	563.3	455.3	385.1	363.0
62.5°	575.0	503.5	395.5	330.5	307.0
65°	513.9	442.3	340.9	277.1	262.8
67.5°	452.7	379.9	281.0	232.9	217.3
70°	392.9	322.6	231.6	186.0	171.7
72.5°	333.1	264.1	183.4	148.3	144.4
75°	271.9	209.5	137.9	124.9	122.3
77.5°	216.0	158.7	108.0	100.2	97.6
80°	162.6	109.3	82.0	78.1	75.5
82.5°	111.9	67.7	58.5	54.6	54.6
85°	69.0	40.3	36.4	33.8	33.8
87.5°	31.2	16.9	16.9	15.6	14.3
90°	0.5	6.0	13.2	15.4	16.5
92.5°	12.6	9.3	14.3	18.1	18.7
95°	33.5	11.0	17.0	20.9	20.9
97.5°	61.0	45.6	17.6	22.0	22.5
100°	92.9	103.8	18.1	22.5	23.1
102.5°	129.1	136.3	40.7	22.5	23.6
105°	163.7	169.8	120.3	23.1	24.2
107.5°	200.5	205.5	213.7	129.1	57.1
110°	237.4	241.7	247.8	229.7	151.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	272.5	276.4	282.4	287.4	286.3
115°	307.1	310.4	315.4	320.9	323.1
117.5°	341.2	345.0	347.8	352.2	352.7
120°	372.5	377.5	379.1	383.5	383.5
122.5°	404.4	408.2	410.4	413.2	413.7
125°	432.9	437.3	439.5	440.6	441.7
127.5°	461.5	465.9	468.7	470.3	469.2
130°	487.9	492.3	494.5	496.7	495.6
132.5°	513.2	517.6	519.2	521.4	519.8
135°	539.0	542.3	544.5	546.1	544.5
137.5°	561.0	565.4	566.5	569.2	568.1
140°	582.9	586.2	587.9	590.1	589.0
142.5°	603.3	606.6	608.2	609.9	608.2
145°	622.0	625.8	626.9	628.0	628.0
147.5°	640.1	642.8	643.9	645.0	642.3
150°	656.6	658.2	659.3	660.4	658.8
152.5°	671.4	672.0	672.5	674.7	672.0
155°	685.1	684.0	684.6	687.3	684.0
157.5°	696.1	696.1	695.6	698.9	694.5
160°	706.0	705.5	704.9	708.2	704.4
162.5°	715.4	713.7	713.2	717.0	713.7
165°	722.5	720.9	720.3	724.7	720.9
167.5°	728.5	726.3	726.3	730.7	726.3
170°	733.5	731.3	731.3	735.7	731.3
172.5°	736.8	734.0	734.6	739.0	734.0
175°	739.5	736.8	737.3	741.2	736.8
177.5°	740.6	737.9	738.4	742.8	737.3
180°	739.5	739.5	739.5	739.5	739.5

(END OF REPORT)