

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: P1012435

Luminaire Tested: S123RDIP-B340D1025UB50-4F0-XX-W2A-F4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012435
REPORT IS A COMBINATION OF REPORTS P993158 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-B340D1025UB50-4F0-XX-W2A-F4
Description: Define 3 Regressed Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015}
{m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

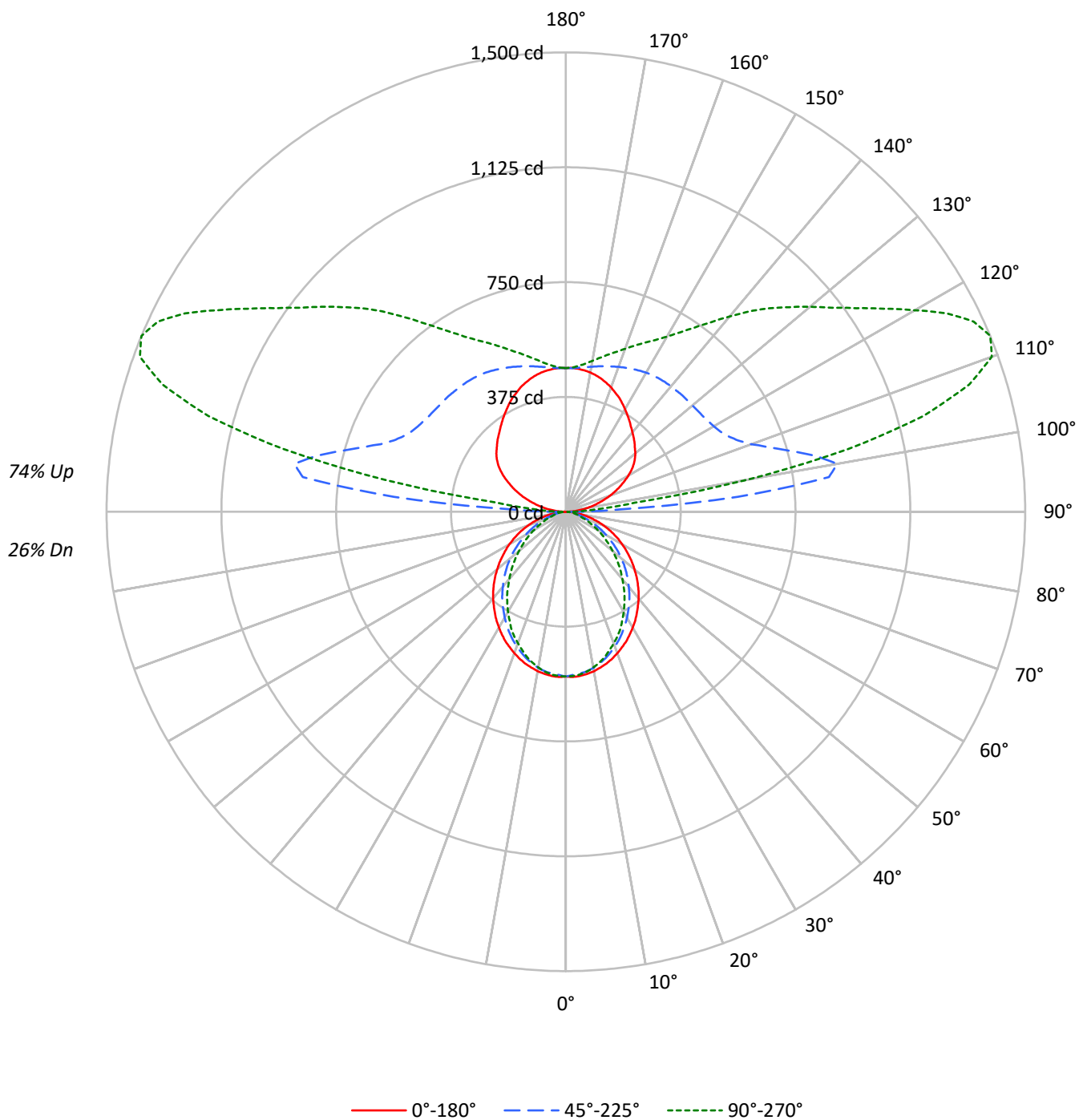
Lumens per Lamp: N/A
Luminaire Lumens: 4756.2 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 41.5
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	101	101	101	101	90	90	90	90	70	70	70	51	51	51	34	34	34
1	92	88	85	81	82	79	76	73	61	59	57	45	44	43	30	29	29
2	84	77	72	67	75	69	64	60	54	51	48	40	38	36	27	25	24
3	77	68	61	56	68	61	55	50	48	44	40	35	33	30	24	22	21
4	70	60	53	47	62	54	48	43	42	38	34	31	28	26	21	20	18
5	65	54	46	40	57	48	41	37	38	33	29	28	25	23	19	17	16
6	59	48	40	35	53	43	36	32	34	29	26	25	22	20	17	15	14
7	55	43	36	30	49	39	32	28	31	26	22	23	20	17	16	14	12
8	51	39	32	27	45	35	29	24	28	23	20	21	18	15	15	13	11
9	47	35	28	24	42	32	26	22	25	21	18	19	16	14	13	12	10
10	44	32	26	21	39	29	23	19	23	19	16	18	15	12	12	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5789	5789	5789
5°	5798	5584	5569
10°	5752	5374	5268
15°	5678	5114	4939
20°	5580	4832	4571
25°	5479	4539	4222
30°	5349	4227	3810
35°	5216	3921	3434
40°	5091	3588	3019
45°	4929	3262	2647
50°	4752	2915	2260
55°	4568	2543	1906
60°	4393	2162	1548
65°	4165	1770	1208
70°	3878	1338	864
75°	3469	906	684
80°	2959	630	480
85°	2219	340	250

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4929 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.6	1.1
10°-20°	140.6	3.0
20°-30°	202.5	4.3
30°-40°	228.0	4.8
40°-50°	218.1	4.6
50°-60°	178.6	3.8
60°-70°	120.4	2.5
70°-80°	60.4	1.3
80°-90°	18.4	0.4
90°-100°	266.7	5.6
100°-110°	745.5	15.7
110°-120°	726.9	15.3
120°-130°	578.8	12.2
130°-140°	456.9	9.6
140°-150°	340.9	7.2
150°-160°	237.8	5.0
160°-170°	139.7	2.9
170°-180°	45.4	1.0
0°-30°	393.7	8.3
0°-40°	621.7	13.1
0°-60°	1018.4	21.4
0°-90°	1217.6	25.6
90°-120°	1739.1	36.6
90°-150°	3115.7	65.5
90°-180°	3539.0	74.4
0°-180°	4756.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	538	538	538	538	538	
5°	538	536	530	534	533	51
15°	513	508	496	494	491	145
25°	467	456	436	427	422	215
35°	404	388	361	342	334	253
45°	332	312	279	254	243	256
55°	252	231	194	168	160	226
65°	172	148	114	93	88	171
75°	91	70	46	42	41	97
85°	23	14	12	11	11	25
90°	2	11	24	27	28	4
95°	32	105	563	164	110	34
105°	110	163	764	1336	1208	117
115°	195	243	584	1281	1470	193
125°	271	320	545	988	1159	241
135°	317	379	538	814	940	245
145°	362	415	531	667	734	227
155°	411	444	514	584	609	189
165°	449	462	492	522	531	127
175°	468	469	472	479	478	44
180°	469	469	469	469	469	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	537.8	537.8	537.8	537.8	537.8
2.5°	540.0	538.2	533.0	537.8	536.9
5°	537.8	535.6	530.4	534.3	533.4
7.5°	533.9	531.7	525.2	527.8	526.5
10°	528.6	525.6	517.7	518.2	516.0
12.5°	521.2	517.7	507.7	507.3	504.7
15°	512.9	508.1	495.9	493.8	490.7
17.5°	502.9	497.7	482.4	478.1	473.7
20°	491.6	484.6	468.0	462.3	457.1
22.5°	478.9	470.6	452.8	445.3	440.5
25°	466.7	455.8	435.7	426.6	421.8
27.5°	451.9	440.1	418.3	406.1	398.7
30°	436.6	423.5	399.1	384.3	377.3
32.5°	421.3	406.1	379.9	363.3	355.9
35°	403.9	388.2	361.2	342.4	334.5
37.5°	386.5	369.4	341.1	320.2	310.6
40°	369.9	350.7	319.7	297.0	287.0
42.5°	351.1	331.9	299.7	274.4	265.6
45°	331.9	312.3	278.7	253.9	243.4
47.5°	313.2	291.4	258.2	231.2	222.0
50°	292.2	271.7	236.4	209.4	199.3
52.5°	273.5	250.8	215.9	187.6	178.8
55°	252.1	230.7	193.7	168.4	159.6
57.5°	232.9	209.8	172.3	148.3	140.9
60°	212.9	188.9	152.7	129.1	121.7
62.5°	192.8	168.8	132.6	110.8	102.9
65°	172.3	148.3	114.3	92.9	88.1
67.5°	151.8	127.4	94.2	78.1	72.8
70°	131.7	108.2	77.6	62.4	57.6
72.5°	111.7	88.5	61.5	49.7	48.4
75°	91.2	70.2	46.2	41.9	41.0
77.5°	72.4	53.2	36.2	33.6	32.7
80°	54.5	36.6	27.5	26.2	25.3
82.5°	37.5	22.7	19.6	18.3	18.3
85°	23.1	13.5	12.2	11.3	11.3
87.5°	10.5	5.7	5.7	5.2	4.8
90°	1.9	11.4	23.8	26.6	27.6
92.5°	14.3	57.0	176.7	60.4	50.4
95°	32.3	105.0	563.4	164.4	110.2
97.5°	51.3	120.2	866.5	413.2	226.1
100°	70.3	132.6	899.7	864.6	595.7
102.5°	90.3	146.8	838.0	1157.6	943.4
105°	110.2	163.0	763.9	1335.8	1208.5
107.5°	131.1	182.0	698.3	1414.2	1381.4
110°	153.9	201.4	644.2	1416.6	1480.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	174.8	221.8	608.0	1362.9	1500.2
115°	194.8	242.8	584.3	1281.2	1469.8
117.5°	214.7	262.7	568.1	1193.8	1403.3
120°	235.6	282.6	557.7	1111.1	1315.9
122.5°	253.7	301.6	551.0	1046.0	1234.1
125°	270.8	319.7	545.3	988.1	1159.1
127.5°	284.1	336.8	542.5	940.6	1094.5
130°	296.4	352.0	539.6	896.9	1041.3
132.5°	305.9	365.8	538.7	856.0	989.0
135°	317.3	378.6	537.7	813.8	939.6
137.5°	327.8	389.0	535.8	773.8	887.4
140°	338.2	398.5	534.9	734.9	832.3
142.5°	349.6	407.1	533.0	699.3	781.0
145°	362.0	414.7	531.1	667.4	734.4
147.5°	374.3	422.8	528.2	642.8	694.5
150°	386.7	429.4	524.4	620.8	660.3
152.5°	399.0	436.6	519.7	601.8	631.8
155°	411.4	443.6	514.0	584.3	609.0
157.5°	420.9	449.8	509.2	567.2	587.1
160°	432.3	455.0	503.5	551.5	566.2
162.5°	440.8	458.9	497.8	536.8	547.2
165°	449.4	462.2	492.1	522.0	531.1
167.5°	456.0	465.0	486.4	509.2	514.9
170°	461.7	466.4	480.7	497.8	500.7
172.5°	465.5	467.9	476.0	487.8	487.4
175°	468.4	468.8	472.2	478.8	477.9
177.5°	470.3	469.3	469.3	473.1	471.2
180°	469.3	469.3	469.3	469.3	469.3

(END OF REPORT)