

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: P1012521

Luminaire Tested: S123RDIP-B340D585UB50-4F0-XX-W2A-F

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012521
REPORT IS A COMBINATION OF REPORTS P993276 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-B340D585UB50-4F0-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

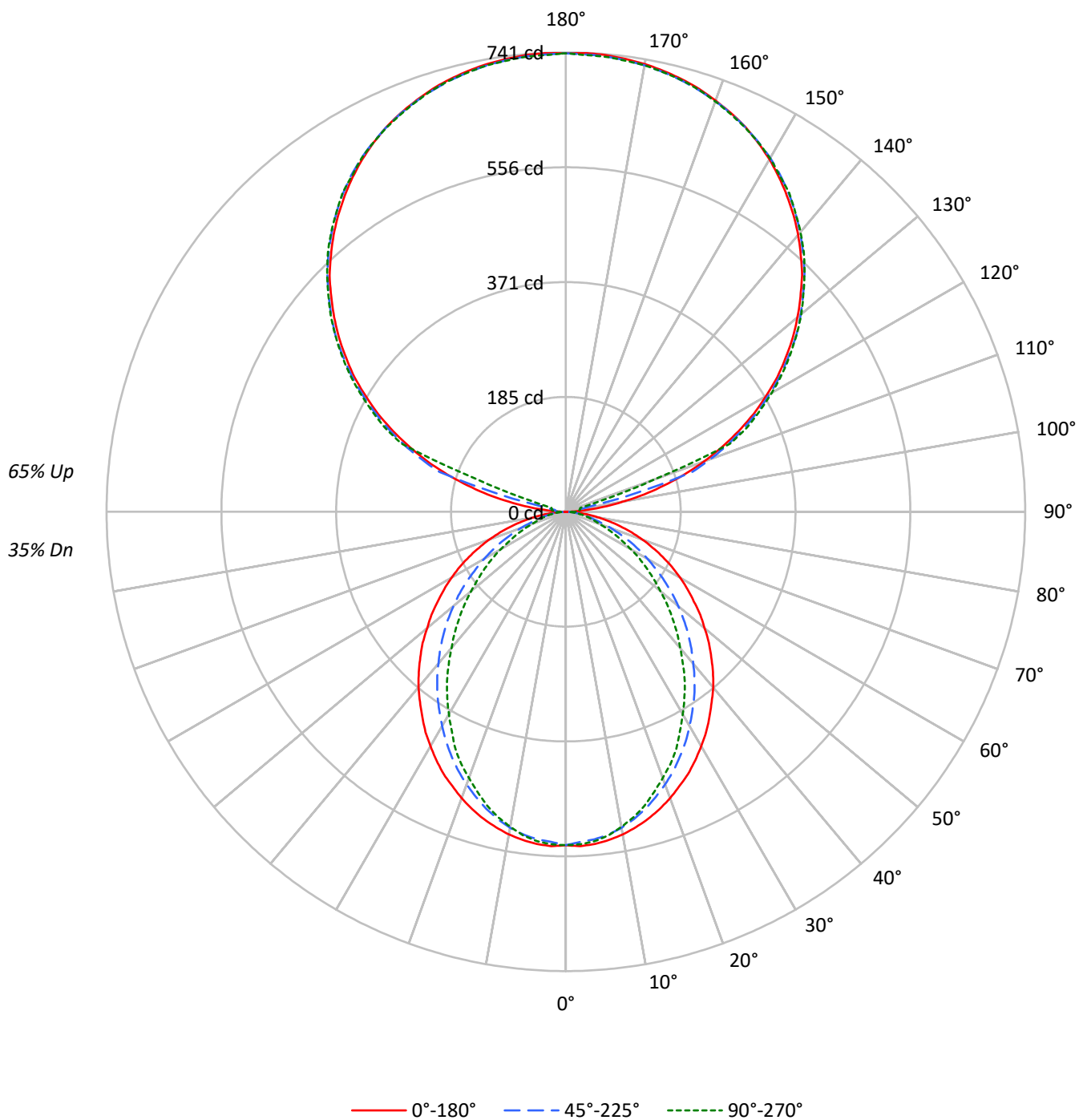
Lumens per Lamp: N/A
Luminaire Lumens: 3471.0 lumens
Efficiency: N/A
Efficacy: 122.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 28.4
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	104	104	104	104	94	94	94	94	75	75	75	58	58	58	42	42	42
1	95	91	87	83	85	82	79	76	66	64	62	51	50	49	38	37	36
2	86	79	73	68	78	72	67	63	58	55	52	45	43	41	34	32	31
3	79	70	63	57	71	63	57	53	51	47	44	40	37	35	30	28	26
4	72	62	54	48	65	56	50	45	46	41	37	36	33	30	27	25	23
5	66	55	47	42	60	50	43	38	41	36	32	32	29	26	24	22	20
6	61	49	42	36	55	45	38	33	37	32	28	29	26	23	22	20	18
7	56	45	37	32	51	41	34	29	33	28	25	27	23	20	20	18	16
8	52	40	33	28	47	37	30	26	30	25	22	24	21	18	19	16	14
9	49	37	30	25	44	34	27	23	28	23	20	22	19	16	17	15	13
10	45	34	27	22	41	31	25	21	26	21	18	21	17	15	16	13	12

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	1.5
10°-20°	140.6	4.1
20°-30°	202.5	5.8
30°-40°	228.0	6.6
40°-50°	218.1	6.3
50°-60°	178.6	5.1
60°-70°	120.4	3.5
70°-80°	60.4	1.7
80°-90°	17.3	0.5
90°-100°	26.1	0.8
100°-110°	126.1	3.6
110°-120°	309.0	8.9
120°-130°	392.2	11.3
130°-140°	419.0	12.1
140°-150°	391.8	11.3
150°-160°	316.0	9.1
160°-170°	204.0	5.9
170°-180°	70.3	2.0
0°-30°	393.7	11.3
0°-40°	621.7	17.9
0°-60°	1018.4	29.3
0°-90°	1216.5	35.0
90°-120°	461.1	13.3
90°-150°	1664.2	47.9
90°-180°	2255.0	65.0
0°-180°	3471.0	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°	0	6	13	15	16	3
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°	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°	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)