

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: P1012523

Luminaire Tested: S123RDIP-B340D585UB50-4F0-XX-W2A-F4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012523
REPORT IS A COMBINATION OF REPORTS P993278 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-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

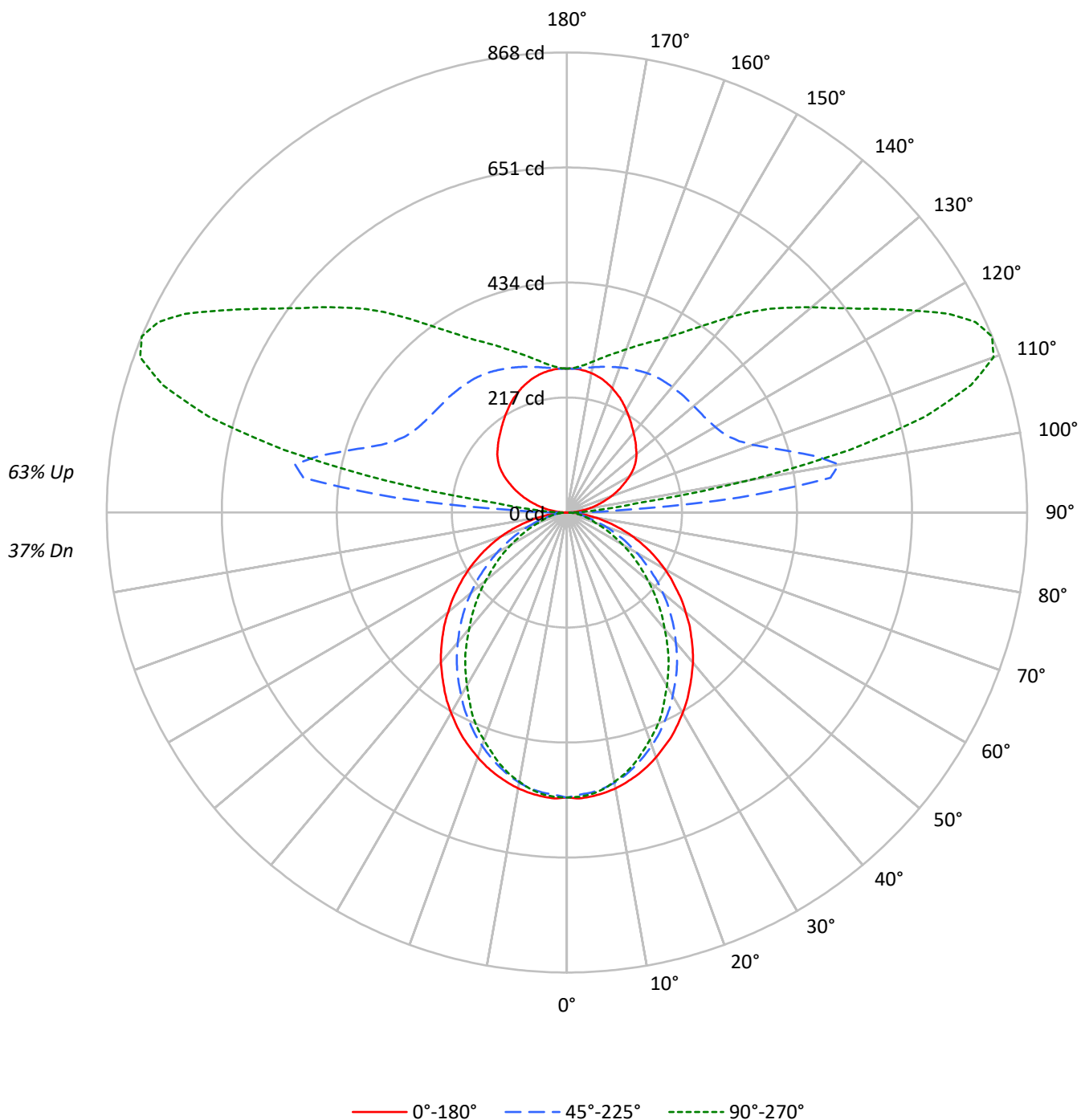
Lumens per Lamp: N/A
Luminaire Lumens: 3263.8 lumens
Efficiency: N/A
Efficacy: 114.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 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	76	76	76	60	60	60	44	44	44
1	95	91	87	84	86	83	80	77	67	65	63	53	51	50	40	39	38
2	87	80	74	69	79	73	68	63	59	56	52	47	44	42	35	34	32
3	79	70	63	58	72	64	58	53	52	48	44	41	38	36	31	29	28
4	73	62	55	49	66	57	50	45	47	42	38	37	34	31	28	26	24
5	67	55	48	42	60	51	44	39	42	37	33	33	30	27	25	23	21
6	61	50	42	36	56	46	39	34	38	32	29	30	26	24	23	21	19
7	57	45	37	32	51	41	34	30	34	29	25	27	24	21	21	19	17
8	53	41	33	28	48	37	31	26	31	26	22	25	21	19	19	17	15
9	49	37	30	25	44	34	28	23	28	23	20	23	19	17	18	15	14
10	46	34	27	22	42	31	25	21	26	21	18	21	18	15	17	14	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	4.3
20°-30°	202.5	6.2
30°-40°	228.0	7.0
40°-50°	218.1	6.7
50°-60°	178.6	5.5
60°-70°	120.4	3.7
70°-80°	60.4	1.8
80°-90°	17.3	0.5
90°-100°	154.3	4.7
100°-110°	431.3	13.2
110°-120°	420.5	12.9
120°-130°	334.9	10.3
130°-140°	264.3	8.1
140°-150°	197.2	6.0
150°-160°	137.6	4.2
160°-170°	80.8	2.5
170°-180°	26.3	0.8
0°-30°	393.7	12.1
0°-40°	621.7	19.0
0°-60°	1018.4	31.2
0°-90°	1216.5	37.3
90°-120°	1006.1	30.8
90°-150°	1802.6	55.2
90°-180°	2047.0	62.7
0°-180°	3263.8	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°	1	7	14	15	16	3
95°	19	61	326	95	64	20
105°	64	94	442	773	699	68
115°	113	140	338	741	850	112
125°	157	185	316	572	671	139
135°	184	219	311	471	544	142
145°	209	240	307	386	425	131
155°	238	257	297	338	352	109
165°	260	267	285	302	307	73
175°	271	271	273	277	276	26
180°	272	272	272	272	272	

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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°	1.1	6.6	13.7	15.4	15.9
92.5°	8.2	33.0	102.2	34.9	29.1
95°	18.7	60.8	325.9	95.1	63.8
97.5°	29.7	69.5	501.3	239.1	130.8
100°	40.7	76.7	520.5	500.2	344.6
102.5°	52.2	84.9	484.8	669.8	545.8
105°	63.8	94.2	441.9	772.8	699.2
107.5°	75.9	105.2	404.0	818.2	799.2
110°	89.0	116.5	372.7	819.6	856.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	101.1	128.4	351.8	788.5	867.9
115°	112.7	140.4	338.0	741.2	850.3
117.5°	124.2	152.0	328.7	690.7	811.8
120°	136.3	163.6	322.7	642.8	761.3
122.5°	146.8	174.5	318.8	605.2	714.0
125°	156.7	185.0	315.5	571.7	670.6
127.5°	164.3	194.9	313.9	544.2	633.2
130°	171.5	203.6	312.2	518.9	602.4
132.5°	177.0	211.6	311.7	495.2	572.2
135°	183.6	219.0	311.1	470.8	543.6
137.5°	189.6	225.1	310.0	447.7	513.4
140°	195.7	230.6	309.5	425.2	481.5
142.5°	202.3	235.6	308.4	404.5	451.8
145°	209.4	239.9	307.3	386.2	424.9
147.5°	216.6	244.6	305.6	371.8	401.8
150°	223.7	248.4	303.4	359.2	382.0
152.5°	230.9	252.6	300.7	348.2	365.5
155°	238.0	256.6	297.4	338.0	352.3
157.5°	243.5	260.2	294.6	328.2	339.7
160°	250.1	263.2	291.3	319.1	327.6
162.5°	255.0	265.5	288.0	310.5	316.6
165°	260.0	267.4	284.7	302.0	307.3
167.5°	263.8	269.0	281.4	294.6	297.9
170°	267.1	269.8	278.1	288.0	289.7
172.5°	269.3	270.7	275.4	282.2	282.0
175°	271.0	271.2	273.2	277.0	276.5
177.5°	272.1	271.5	271.5	273.7	272.6
180°	271.5	271.5	271.5	271.5	271.5

(END OF REPORT)