

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: P1012510

Luminaire Tested: S123RDIP-B340D585UB35-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012510
REPORT IS A COMBINATION OF REPORTS P993265 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-B340D585UB35-4F0-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

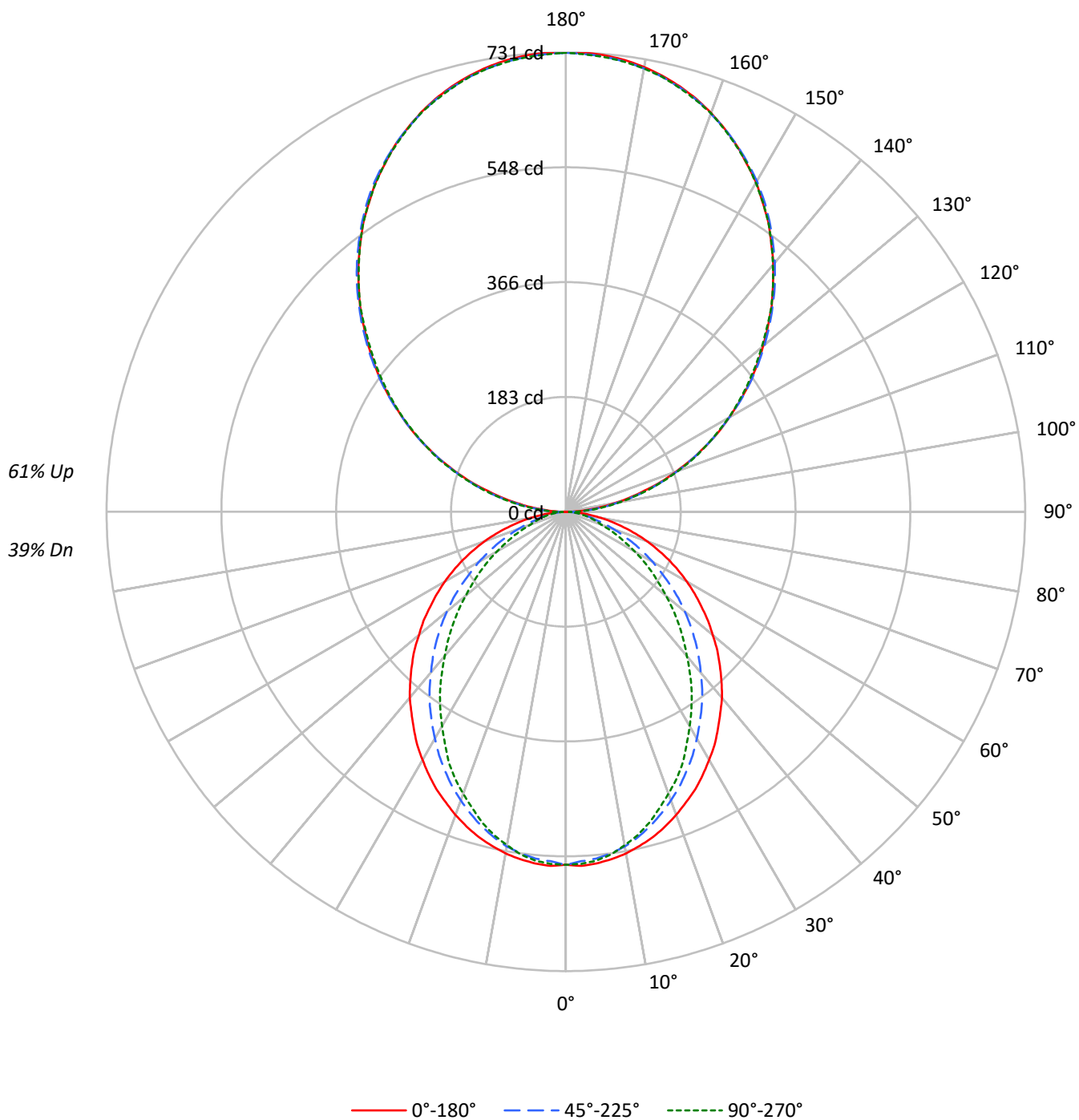
Lumens per Lamp: N/A
Luminaire Lumens: 3295.0 lumens
Efficiency: N/A
Efficacy: 116.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	95	95	95	95	77	77	77	61	61	61	46	46	46
1	95	91	88	84	87	83	80	77	68	66	64	54	52	51	41	40	39
2	87	80	74	69	79	73	68	64	60	56	53	47	45	43	36	35	33
3	80	70	63	58	72	64	58	53	53	48	45	42	39	37	32	30	29
4	73	62	55	49	66	57	51	45	47	42	38	38	34	31	29	27	25
5	67	56	48	42	61	51	44	39	42	37	33	34	30	27	26	24	22
6	62	50	42	36	56	46	39	34	38	33	29	31	27	24	24	21	19
7	57	45	37	32	52	41	35	30	34	29	25	28	24	21	22	19	17
8	53	41	33	28	48	38	31	26	31	26	23	26	22	19	20	17	15
9	49	37	30	25	45	34	28	24	29	24	20	23	20	17	18	16	14
10	46	34	27	23	42	32	25	21	26	22	18	22	18	15	17	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6046	6046	6046
5°	6056	5833	5817
10°	6008	5613	5502
15°	5930	5342	5158
20°	5828	5047	4774
25°	5723	4741	4409
30°	5587	4415	3979
35°	5449	4095	3587
40°	5316	3747	3154
45°	5149	3407	2764
50°	4963	3044	2361
55°	4771	2656	1991
60°	4587	2257	1616
65°	4349	1849	1261
70°	4052	1398	901
75°	3621	947	714
80°	3089	658	501
85°	2315	356	262

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5149 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.8	1.6
10°-20°	146.9	4.5
20°-30°	211.5	6.4
30°-40°	238.2	7.2
40°-50°	227.8	6.9
50°-60°	186.5	5.7
60°-70°	125.7	3.8
70°-80°	63.1	1.9
80°-90°	18.0	0.5
90°-100°	47.0	1.4
100°-110°	142.4	4.3
110°-120°	242.3	7.4
120°-130°	318.8	9.7
130°-140°	358.4	10.9
140°-150°	352.3	10.7
150°-160°	296.6	9.0
160°-170°	197.5	6.0
170°-180°	69.1	2.1
0°-30°	411.2	12.5
0°-40°	649.4	19.7
0°-60°	1063.7	32.3
0°-90°	1270.5	38.6
90°-120°	431.8	13.1
90°-150°	1461.2	44.3
90°-180°	2024.0	61.4
0°-180°	3295.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	562	562	562	562	562	
5°	562	559	554	558	557	53
15°	536	531	518	516	512	151
25°	488	476	455	446	440	224
35°	422	406	377	358	349	264
45°	347	326	291	265	254	268
55°	263	241	202	176	167	236
65°	180	155	119	97	92	178
75°	95	73	48	44	43	101
85°	24	14	13	12	12	26
90°	1	6	14	16	17	4
95°	34	38	42	45	45	37
105°	129	130	136	136	137	138
115°	244	246	244	245	244	241
125°	357	359	358	355	353	318
135°	463	467	466	464	463	357
145°	562	563	565	564	562	351
155°	643	643	644	646	642	296
165°	701	699	699	702	698	198
175°	729	727	727	730	726	69
180°	731	731	731	731	731	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	561.7	561.7	561.7	561.7	561.7
2.5°	564.0	562.2	556.7	561.7	560.8
5°	561.7	559.4	554.0	558.1	557.2
7.5°	557.6	555.3	548.5	551.2	549.9
10°	552.1	549.0	540.8	541.2	538.9
12.5°	544.4	540.8	530.3	529.8	527.1
15°	535.7	530.7	518.0	515.7	512.5
17.5°	525.3	519.8	503.9	499.3	494.7
20°	513.4	506.1	488.8	482.9	477.4
22.5°	500.2	491.6	472.9	465.1	460.1
25°	487.5	476.1	455.1	445.5	440.5
27.5°	472.0	459.7	436.9	424.1	416.4
30°	456.0	442.4	416.8	401.4	394.1
32.5°	440.1	424.1	396.8	379.5	371.7
35°	421.9	405.5	377.2	357.6	349.4
37.5°	403.6	385.9	356.3	334.4	324.4
40°	386.3	366.3	333.9	310.2	299.8
42.5°	366.7	346.7	313.0	286.5	277.4
45°	346.7	326.2	291.1	265.1	254.2
47.5°	327.1	304.3	269.7	241.4	231.9
50°	305.2	283.8	246.9	218.7	208.2
52.5°	285.6	261.9	225.5	195.9	186.8
55°	263.3	241.0	202.3	175.8	166.7
57.5°	243.3	219.1	179.9	154.9	147.1
60°	222.3	197.3	159.4	134.8	127.1
62.5°	201.4	176.3	138.5	115.7	107.5
65°	179.9	154.9	119.4	97.0	92.0
67.5°	158.5	133.0	98.4	81.5	76.1
70°	137.6	113.0	81.1	65.1	60.1
72.5°	116.6	92.5	64.2	51.9	50.6
75°	95.2	73.3	48.3	43.7	42.8
77.5°	75.6	55.6	37.8	35.1	34.2
80°	56.9	38.3	28.7	27.3	26.4
82.5°	39.2	23.7	20.5	19.1	19.1
85°	24.1	14.1	12.8	11.8	11.8
87.5°	10.9	5.9	5.9	5.5	5.0
90°	0.6	6.3	13.8	16.1	17.2
92.5°	17.2	20.7	24.1	25.8	24.7
95°	33.9	37.9	42.5	44.8	44.8
97.5°	55.7	58.5	62.0	64.9	64.3
100°	78.1	81.5	84.4	86.1	87.2
102.5°	103.9	105.6	109.6	111.3	110.8
105°	129.1	130.3	135.5	135.5	136.6
107.5°	159.0	159.6	161.9	163.6	163.0
110°	186.5	187.7	188.8	191.1	190.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	215.2	215.8	215.8	218.7	218.7
115°	243.9	245.6	244.5	245.1	244.5
117.5°	273.2	273.8	272.6	272.6	270.9
120°	300.2	303.6	300.7	300.2	299.0
122.5°	328.3	330.6	329.4	327.7	326.0
125°	357.0	358.7	357.6	355.3	353.0
127.5°	383.4	386.8	385.7	382.2	380.0
130°	409.8	414.4	412.7	410.4	406.4
132.5°	436.2	440.8	439.6	436.8	433.9
135°	463.2	466.6	466.0	463.7	462.6
137.5°	487.9	490.7	492.4	489.6	487.9
140°	513.7	516.6	517.1	516.6	512.5
142.5°	537.2	540.1	541.2	540.7	537.8
145°	561.9	563.0	564.8	564.2	561.9
147.5°	583.1	585.4	587.1	587.1	583.7
150°	605.5	606.7	607.8	607.8	604.4
152.5°	623.9	625.6	626.2	627.3	624.5
155°	643.4	643.4	644.0	646.3	642.2
157.5°	660.0	659.5	660.0	662.3	658.9
160°	675.5	674.4	674.4	677.3	675.0
162.5°	689.3	687.6	688.2	691.0	687.0
165°	700.8	699.1	699.1	702.5	698.5
167.5°	710.5	708.3	708.8	712.3	708.8
170°	718.6	716.3	716.3	720.3	716.3
172.5°	724.9	722.6	722.6	726.0	722.0
175°	728.9	726.6	726.6	730.1	726.0
177.5°	731.2	728.9	728.9	732.4	728.3
180°	730.6	730.6	730.6	730.6	730.6

(END OF REPORT)