

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: P1012505

Luminaire Tested: S123RDIP-B340D585UB30-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012505
REPORT IS A COMBINATION OF REPORTS P993260 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-B340D585UB30-4F0-XX-W2A-F4
Description: Define 3 Regressed Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589}
{m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

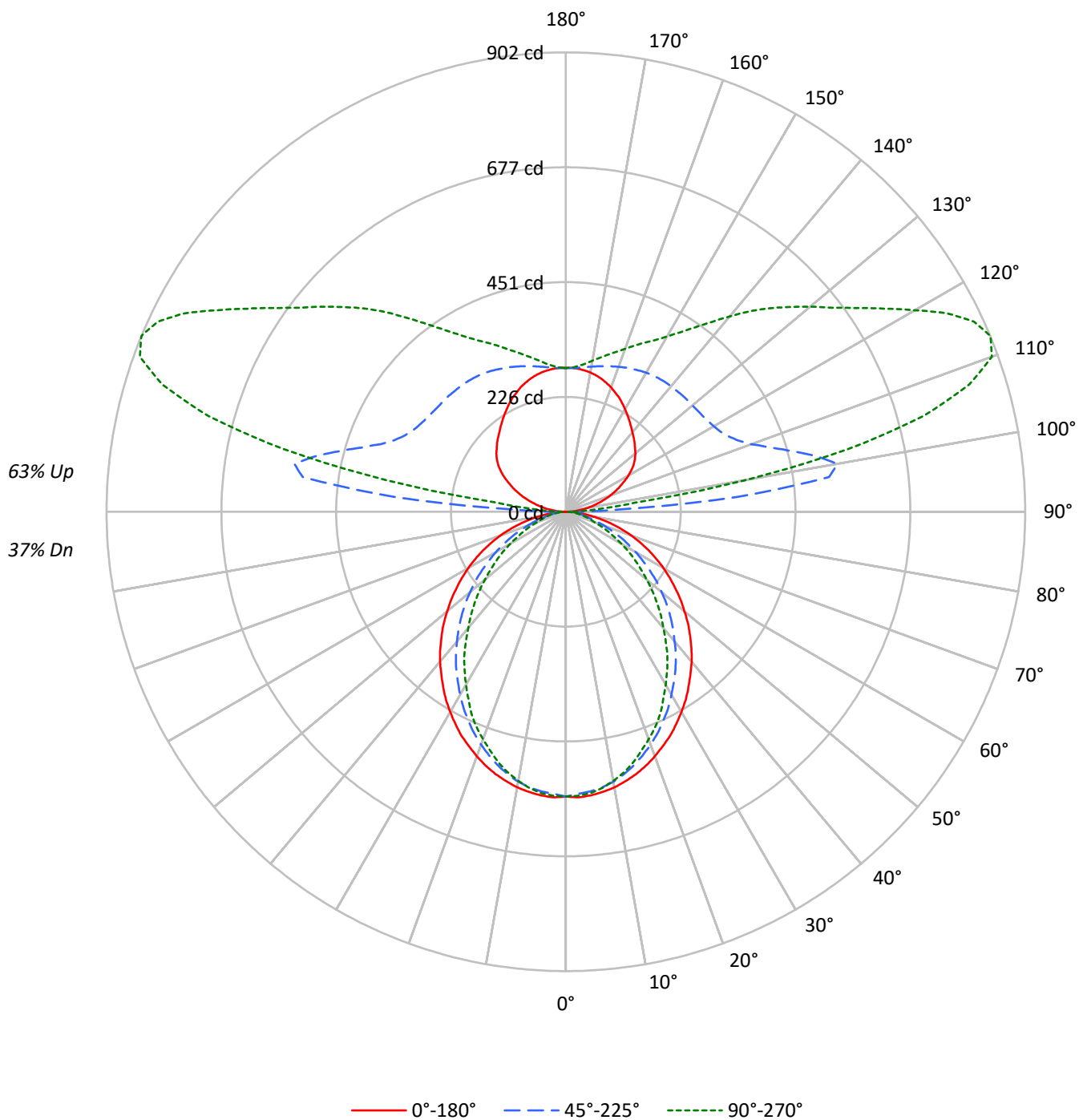
Lumens per Lamp: N/A
Luminaire Lumens: 3392.9 lumens
Efficiency: N/A
Efficacy: 119.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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°	6018	6018	6018
5°	6028	5804	5789
10°	5980	5586	5477
15°	5902	5316	5134
20°	5801	5023	4752
25°	5695	4719	4388
30°	5561	4394	3960
35°	5423	4075	3570
40°	5292	3729	3138
45°	5124	3391	2751
50°	4940	3029	2350
55°	4749	2643	1981
60°	4566	2247	1609
65°	4329	1840	1256
70°	4032	1391	897
75°	3606	943	711
80°	3078	656	499
85°	2305	354	262

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5124 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.6	1.5
10°-20°	146.2	4.3
20°-30°	210.5	6.2
30°-40°	237.1	7.0
40°-50°	226.7	6.7
50°-60°	185.6	5.5
60°-70°	125.1	3.7
70°-80°	62.8	1.8
80°-90°	18.0	0.5
90°-100°	160.4	4.7
100°-110°	448.4	13.2
110°-120°	437.2	12.9
120°-130°	348.1	10.3
130°-140°	274.8	8.1
140°-150°	205.0	6.0
150°-160°	143.0	4.2
160°-170°	84.0	2.5
170°-180°	27.3	0.8
0°-30°	409.2	12.1
0°-40°	646.3	19.0
0°-60°	1058.7	31.2
0°-90°	1264.6	37.3
90°-120°	1046.0	30.8
90°-150°	1874.0	55.2
90°-180°	2128.0	62.7
0°-180°	3392.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	559	559	559	559	559	
5°	559	557	551	555	554	53
15°	533	528	516	513	510	150
25°	485	474	453	443	438	223
35°	420	404	375	356	348	263
45°	345	325	290	264	253	266
55°	262	240	201	175	166	235
65°	179	154	119	97	92	177
75°	95	73	48	44	43	101
85°	24	14	13	12	12	26
90°	1	7	14	16	17	3
95°	19	63	339	99	66	21
105°	66	98	459	803	727	70
115°	117	146	351	771	884	116
125°	163	192	328	594	697	145
135°	191	228	323	489	565	147
145°	218	249	319	401	442	136
155°	247	267	309	351	366	114
165°	270	278	296	314	319	76
175°	282	282	284	288	287	27
180°	282	282	282	282	282	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	559.1	559.1	559.1	559.1	559.1
2.5°	561.3	559.5	554.1	559.1	558.1
5°	559.1	556.8	551.3	555.4	554.5
7.5°	555.0	552.7	545.9	548.6	547.3
10°	549.5	546.4	538.2	538.6	536.4
12.5°	541.8	538.2	527.8	527.3	524.6
15°	533.2	528.2	515.5	513.3	510.1
17.5°	522.8	517.3	501.5	496.9	492.4
20°	511.0	503.7	486.5	480.6	475.2
22.5°	497.8	489.2	470.6	462.9	457.9
25°	485.1	473.8	453.0	443.4	438.4
27.5°	469.7	457.5	434.8	422.1	414.4
30°	453.9	440.3	414.9	399.5	392.2
32.5°	438.0	422.1	394.9	377.7	370.0
35°	419.9	403.5	375.4	355.9	347.8
37.5°	401.7	384.0	354.6	332.8	322.8
40°	384.5	364.5	332.3	308.8	298.3
42.5°	365.0	345.0	311.5	285.2	276.1
45°	345.0	324.6	289.7	263.9	253.0
47.5°	325.5	302.9	268.4	240.3	230.8
50°	303.8	282.5	245.7	217.6	207.2
52.5°	284.3	260.7	224.4	195.0	185.9
55°	262.1	239.9	201.3	175.0	165.9
57.5°	242.1	218.1	179.1	154.2	146.5
60°	221.3	196.3	158.7	134.2	126.5
62.5°	200.4	175.5	137.8	115.2	107.0
65°	179.1	154.2	118.8	96.6	91.6
67.5°	157.8	132.4	97.9	81.2	75.7
70°	136.9	112.4	80.7	64.8	59.8
72.5°	116.1	92.0	63.9	51.7	50.3
75°	94.8	73.0	48.1	43.5	42.6
77.5°	75.3	55.3	37.6	34.9	34.0
80°	56.7	38.1	28.6	27.2	26.3
82.5°	39.0	23.6	20.4	19.0	19.0
85°	24.0	14.1	12.7	11.8	11.8
87.5°	10.9	5.9	5.9	5.4	5.0
90°	1.1	6.8	14.3	16.0	16.6
92.5°	8.6	34.2	106.3	36.3	30.3
95°	19.4	63.2	338.9	98.8	66.3
97.5°	30.9	72.3	521.2	248.6	136.0
100°	42.3	79.8	541.2	520.0	358.3
102.5°	54.3	88.3	504.0	696.3	567.4
105°	66.3	98.0	459.4	803.4	726.9
107.5°	78.9	109.4	420.0	850.6	830.9
110°	92.6	121.1	387.4	852.0	890.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	105.1	133.4	365.7	819.8	902.3
115°	117.1	146.0	351.4	770.6	884.0
117.5°	129.1	158.0	341.7	718.0	844.0
120°	141.7	170.0	335.4	668.3	791.4
122.5°	152.6	181.4	331.4	629.2	742.3
125°	162.9	192.3	328.0	594.3	697.2
127.5°	170.9	202.6	326.3	565.8	658.3
130°	178.3	211.7	324.6	539.4	626.3
132.5°	184.0	220.0	324.0	514.9	594.9
135°	190.9	227.7	323.4	489.4	565.2
137.5°	197.1	234.0	322.3	465.4	533.7
140°	203.4	239.8	321.7	442.0	500.6
142.5°	210.3	244.8	320.6	420.6	469.7
145°	217.7	249.4	319.4	401.4	441.7
147.5°	225.1	254.3	317.7	386.6	417.7
150°	232.6	258.2	315.4	373.4	397.2
152.5°	240.0	262.5	312.6	362.0	380.0
155°	247.4	266.9	309.2	351.4	366.3
157.5°	253.1	270.5	306.3	341.2	353.2
160°	260.0	273.8	302.9	331.7	340.6
162.5°	265.1	276.0	299.4	322.9	329.2
165°	270.3	278.0	296.0	314.0	319.4
167.5°	274.3	279.8	292.6	306.3	309.7
170°	277.7	280.6	289.2	299.4	301.2
172.5°	280.0	281.4	286.3	293.4	293.2
175°	281.7	282.0	284.0	288.0	287.4
177.5°	282.9	282.3	282.3	284.6	283.4
180°	282.3	282.3	282.3	282.3	282.3

(END OF REPORT)