

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: P1012528

Luminaire Tested: S123RDIP-B340D805UB27-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012528
REPORT IS A COMBINATION OF REPORTS P993283 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-B340D805UB27-4F0-XX-W2A-F1
Description: Define 3 Regressed Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473}
{m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

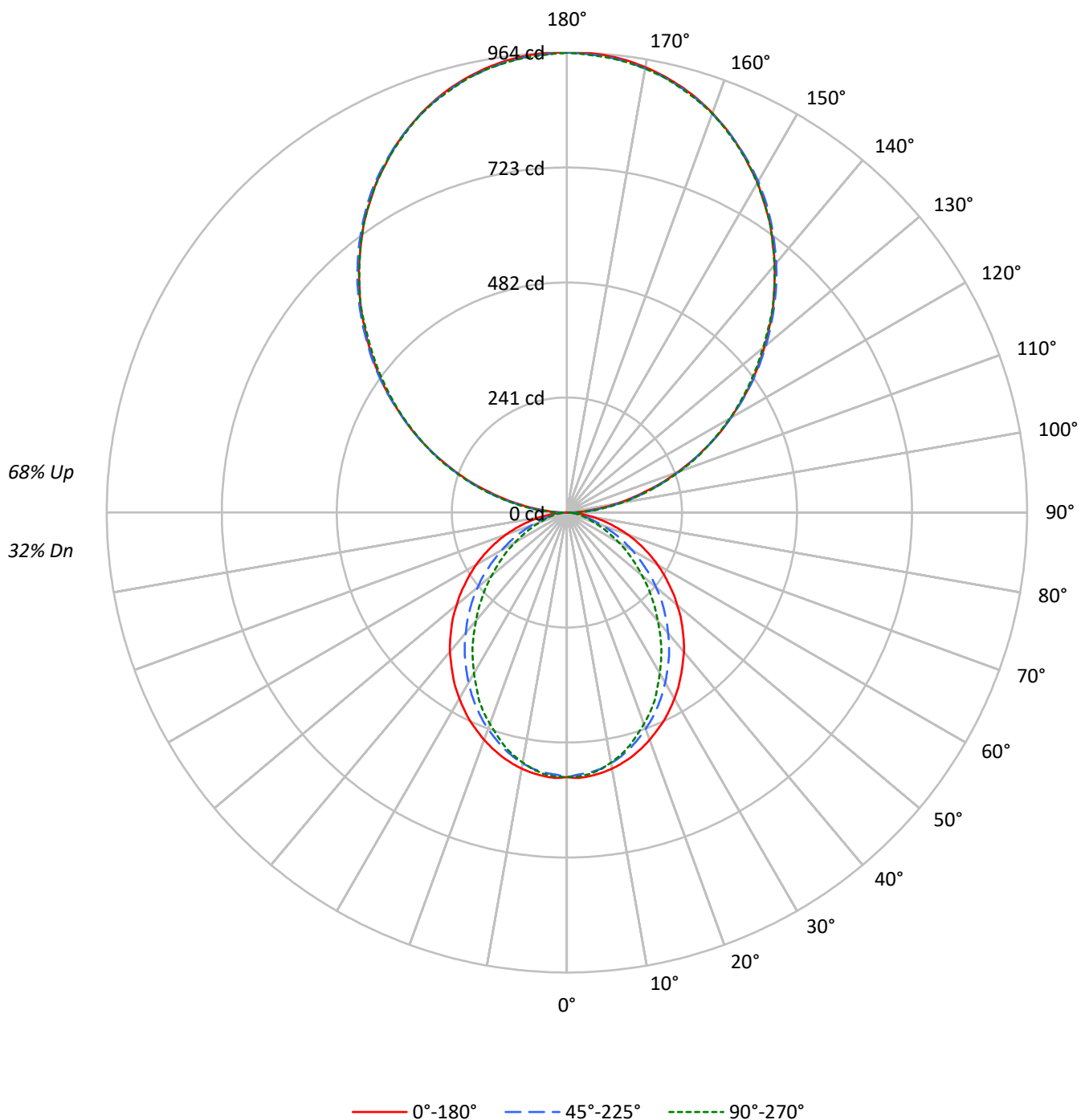
Lumens per Lamp: N/A
Luminaire Lumens: 3925.0 lumens
Efficiency: N/A
Efficacy: 115.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 34.1
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

TEST NUMBER: P1012528

CATALOG NUMBER: S123RDIP-B340D805UB27-4F0-XX-W2A-F1

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	103	103	103	103	93	93	93	93	73	73	73	56	56	56	40	40	40
1	94	90	86	83	84	81	78	75	64	62	60	49	48	47	35	34	34
2	86	79	73	68	77	71	66	62	57	53	50	43	41	39	31	30	29
3	78	69	62	57	70	63	57	52	50	46	42	39	36	33	28	26	25
4	72	61	54	48	64	56	49	44	45	40	36	34	31	29	25	23	21
5	66	55	47	41	59	49	43	38	40	35	31	31	28	25	23	20	19
6	60	49	41	36	54	44	38	33	36	31	27	28	24	22	21	18	17
7	56	44	36	31	50	40	33	29	33	28	24	25	22	19	19	16	15
8	52	40	33	27	47	36	30	25	30	25	21	23	20	17	17	15	13
9	48	36	29	24	43	33	27	23	27	22	19	21	18	15	16	14	12
10	45	33	26	22	40	30	24	20	25	20	17	20	16	14	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5970	5970	5970
5°	5979	5759	5743
10°	5933	5542	5433
15°	5856	5274	5093
20°	5754	4984	4714
25°	5650	4681	4354
30°	5517	4359	3929
35°	5379	4043	3541
40°	5249	3700	3114
45°	5084	3364	2729
50°	4901	3006	2331
55°	4711	2622	1966
60°	4529	2229	1596
65°	4296	1826	1246
70°	3999	1381	891
75°	3576	935	706
80°	3051	649	495
85°	2286	351	259

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5084 cd/sqm

TEST NUMBER: P1012528

CATALOG NUMBER: S123RDIP-B340D805UB27-4F0-XX-W2A-F1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.1	1.3
10°-20°	145.0	3.7
20°-30°	208.8	5.3
30°-40°	235.2	6.0
40°-50°	225.0	5.7
50°-60°	184.1	4.7
60°-70°	124.2	3.2
70°-80°	62.3	1.6
80°-90°	18.3	0.5
90°-100°	62.0	1.6
100°-110°	187.7	4.8
110°-120°	319.6	8.1
120°-130°	420.5	10.7
130°-140°	472.6	12.0
140°-150°	464.7	11.8
150°-160°	391.2	10.0
160°-170°	260.4	6.6
170°-180°	91.2	2.3
0°-30°	406.0	10.3
0°-40°	641.2	16.3
0°-60°	1050.3	26.8
0°-90°	1255.0	32.0
90°-120°	569.4	14.5
90°-150°	1927.2	49.1
90°-180°	2670.0	68.0
0°-180°	3925.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	555	555	555	555	555	
5°	555	552	547	551	550	53
15°	529	524	511	509	506	149
25°	481	470	449	440	435	221
35°	416	400	372	353	345	261
45°	342	322	287	262	251	264
55°	260	238	200	174	165	233
65°	178	153	118	96	91	176
75°	94	72	48	43	42	100
85°	24	14	13	12	12	26
90°	1	8	18	21	23	5
95°	45	50	56	59	59	49
105°	170	172	179	179	180	182
115°	322	324	322	323	322	318
125°	471	473	472	469	466	420
135°	611	615	615	612	610	471
145°	741	743	745	744	741	463
155°	848	848	849	852	847	391
165°	924	922	922	926	921	261
175°	961	958	958	963	958	91
180°	964	964	964	964	964	

TEST NUMBER: P1012528

CATALOG NUMBER: S123RDIP-B340D805UB27-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	554.6	554.6	554.6	554.6	554.6
2.5°	556.9	555.1	549.7	554.6	553.7
5°	554.6	552.4	547.0	551.0	550.1
7.5°	550.6	548.3	541.6	544.3	542.9
10°	545.2	542.0	533.9	534.4	532.1
12.5°	537.5	533.9	523.6	523.1	520.4
15°	529.0	524.0	511.4	509.2	506.0
17.5°	518.6	513.2	497.5	493.0	488.5
20°	506.9	499.7	482.7	476.8	471.4
22.5°	493.9	485.4	466.9	459.3	454.3
25°	481.3	470.1	449.4	439.9	435.0
27.5°	466.0	453.9	431.4	418.8	411.1
30°	450.3	436.8	411.6	396.3	389.1
32.5°	434.5	418.8	391.8	374.7	367.1
35°	416.5	400.3	372.4	353.1	345.0
37.5°	398.5	381.0	351.8	330.2	320.3
40°	381.4	361.7	329.7	306.3	296.0
42.5°	362.1	342.3	309.0	282.9	273.9
45°	342.3	322.1	287.4	261.8	251.0
47.5°	323.0	300.5	266.3	238.4	229.0
50°	301.4	280.2	243.8	215.9	205.6
52.5°	282.0	258.6	222.7	193.4	184.4
55°	260.0	238.0	199.7	173.6	164.6
57.5°	240.2	216.4	177.7	152.9	145.3
60°	219.5	194.8	157.4	133.1	125.5
62.5°	198.8	174.1	136.7	114.3	106.2
65°	177.7	152.9	117.9	95.8	90.9
67.5°	156.5	131.3	97.2	80.5	75.1
70°	135.8	111.6	80.1	64.3	59.4
72.5°	115.2	91.3	63.4	51.3	49.9
75°	94.0	72.4	47.7	43.2	42.3
77.5°	74.7	54.9	37.3	34.6	33.7
80°	56.2	37.8	28.3	27.0	26.1
82.5°	38.7	23.4	20.2	18.9	18.9
85°	23.8	13.9	12.6	11.7	11.7
87.5°	10.8	5.8	5.8	5.4	4.9
90°	0.8	8.3	18.2	21.2	22.7
92.5°	22.7	27.3	31.8	34.1	32.5
95°	44.7	50.0	56.0	59.0	59.0
97.5°	73.4	77.2	81.8	85.5	84.8
100°	102.9	107.5	111.3	113.5	115.1
102.5°	137.0	139.3	144.6	146.8	146.1
105°	170.3	171.8	178.6	178.6	180.2
107.5°	209.7	210.4	213.5	215.7	215.0
110°	246.0	247.5	249.0	252.1	250.6

TEST NUMBER: P1012528

CATALOG NUMBER: S123RDIP-B340D805UB27-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	283.9	284.6	284.6	288.4	288.4
115°	321.7	324.0	322.5	323.2	322.5
117.5°	360.3	361.1	359.6	359.6	357.3
120°	395.9	400.4	396.6	395.9	394.4
122.5°	433.0	436.0	434.5	432.2	429.9
125°	470.8	473.1	471.6	468.6	465.5
127.5°	505.6	510.2	508.7	504.1	501.1
130°	540.5	546.5	544.2	541.2	535.9
132.5°	575.3	581.3	579.8	576.0	572.3
135°	610.9	615.4	614.6	611.6	610.1
137.5°	643.4	647.2	649.5	645.7	643.4
140°	677.5	681.3	682.0	681.3	676.0
142.5°	708.5	712.3	713.8	713.0	709.3
145°	741.1	742.6	744.8	744.1	741.1
147.5°	769.1	772.1	774.4	774.4	769.8
150°	798.6	800.1	801.6	801.6	797.1
152.5°	822.8	825.1	825.8	827.3	823.6
155°	848.5	848.5	849.3	852.3	847.0
157.5°	870.5	869.7	870.5	873.5	869.0
160°	890.9	889.4	889.4	893.2	890.2
162.5°	909.1	906.8	907.6	911.4	906.1
165°	924.2	922.0	922.0	926.5	921.2
167.5°	937.1	934.1	934.8	939.4	934.8
170°	947.7	944.7	944.7	950.0	944.7
172.5°	956.0	953.0	953.0	957.5	952.2
175°	961.3	958.3	958.3	962.8	957.5
177.5°	964.4	961.3	961.3	965.9	960.6
180°	963.6	963.6	963.6	963.6	963.6

(END OF REPORT)