

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: P1012517

Luminaire Tested: S123RDIP-B340D585UB40-4F0-XX-W2A-F4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012517
REPORT IS A COMBINATION OF REPORTS P993272 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-B340D585UB40-4F0-XX-W2A-F4
Description: Define 3 Regressed Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865}
{m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

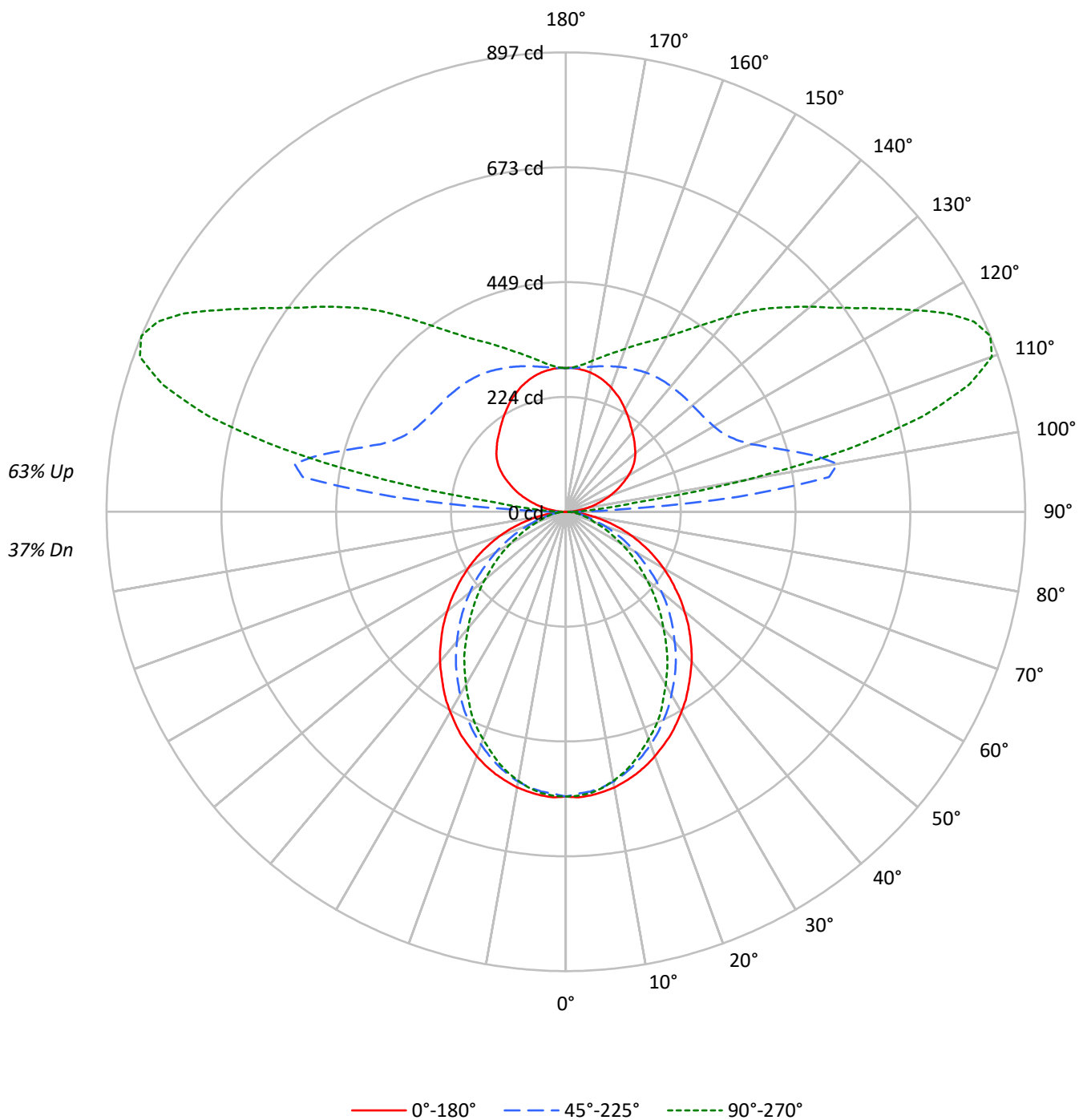
Lumens per Lamp: N/A
Luminaire Lumens: 3373.9 lumens
Efficiency: N/A
Efficacy: 118.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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

TEST NUMBER: P1012517

CATALOG NUMBER: S123RDIP-B340D585UB40-4F0-XX-W2A-F4

Luminous Intensity Polar Plot



TEST NUMBER: P1012517

CATALOG NUMBER: S123RDIP-B340D585UB40-4F0-XX-W2A-F4

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°	5985	5985	5985
5°	5994	5773	5756
10°	5947	5555	5446
15°	5870	5288	5106
20°	5769	4995	4725
25°	5664	4692	4364
30°	5529	4370	3938
35°	5392	4053	3550
40°	5263	3709	3121
45°	5095	3372	2736
50°	4913	3013	2337
55°	4722	2629	1971
60°	4540	2234	1600
65°	4305	1829	1249
70°	4011	1384	892
75°	3583	937	707
80°	3062	651	497
85°	2296	351	259

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 5095 cd/sqm

TEST NUMBER: P1012517

CATALOG NUMBER: S123RDIP-B340D585UB40-4F0-XX-W2A-F4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.3	1.5
10°-20°	145.4	4.3
20°-30°	209.3	6.2
30°-40°	235.7	7.0
40°-50°	225.5	6.7
50°-60°	184.6	5.5
60°-70°	124.4	3.7
70°-80°	62.4	1.8
80°-90°	17.9	0.5
90°-100°	159.5	4.7
100°-110°	445.8	13.2
110°-120°	434.7	12.9
120°-130°	346.2	10.3
130°-140°	273.3	8.1
140°-150°	203.9	6.0
150°-160°	142.2	4.2
160°-170°	83.5	2.5
170°-180°	27.2	0.8
0°-30°	407.0	12.1
0°-40°	642.7	19.0
0°-60°	1052.8	31.2
0°-90°	1257.6	37.3
90°-120°	1040.1	30.8
90°-150°	1863.4	55.2
90°-180°	2116.0	62.7
0°-180°	3373.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	556	556	556	556	556	
5°	556	554	548	552	551	53
15°	530	525	513	510	507	149
25°	482	471	450	441	436	222
35°	418	401	373	354	346	261
45°	343	323	288	262	252	265
55°	261	238	200	174	165	234
65°	178	153	118	96	91	176
75°	94	73	48	43	42	100
85°	24	14	13	12	12	26
90°	1	7	14	16	16	3
95°	19	63	337	98	66	20
105°	66	97	457	799	723	70
115°	116	145	350	766	879	115
125°	162	191	326	591	693	144
135°	190	226	322	487	562	147
145°	216	248	318	399	439	136
155°	246	265	307	349	364	113
165°	269	276	294	312	318	76
175°	280	280	282	286	286	27
180°	281	281	281	281	281	

TEST NUMBER: P1012517

CATALOG NUMBER: S123RDIP-B340D585UB40-4F0-XX-W2A-F4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	556.0	556.0	556.0	556.0	556.0
2.5°	558.2	556.4	551.0	556.0	555.1
5°	556.0	553.7	548.3	552.3	551.4
7.5°	551.9	549.6	542.9	545.6	544.2
10°	546.5	543.3	535.2	535.7	533.4
12.5°	538.8	535.2	524.8	524.4	521.7
15°	530.3	525.3	512.7	510.4	507.3
17.5°	519.9	514.5	498.7	494.2	489.7
20°	508.2	500.9	483.8	477.9	472.5
22.5°	495.1	486.5	468.0	460.4	455.4
25°	482.5	471.2	450.4	441.0	436.0
27.5°	467.1	455.0	432.4	419.8	412.1
30°	451.3	437.8	412.6	397.2	390.0
32.5°	435.6	419.8	392.7	375.6	367.9
35°	417.5	401.3	373.3	354.0	345.8
37.5°	399.5	381.9	352.6	331.0	321.0
40°	382.4	362.5	330.5	307.1	296.7
42.5°	363.0	343.1	309.8	283.6	274.6
45°	343.1	322.8	288.1	262.4	251.6
47.5°	323.7	301.2	266.9	239.0	229.5
50°	302.1	280.9	244.4	216.4	206.1
52.5°	282.7	259.3	223.2	193.9	184.9
55°	260.6	238.5	200.2	174.0	165.0
57.5°	240.8	216.9	178.1	153.3	145.6
60°	220.0	195.2	157.8	133.5	125.8
62.5°	199.3	174.5	137.1	114.5	106.4
65°	178.1	153.3	118.1	96.0	91.1
67.5°	156.9	131.7	97.4	80.7	75.3
70°	136.2	111.8	80.3	64.5	59.5
72.5°	115.4	91.5	63.6	51.4	50.0
75°	94.2	72.6	47.8	43.3	42.4
77.5°	74.8	55.0	37.4	34.7	33.8
80°	56.4	37.9	28.4	27.1	26.2
82.5°	38.8	23.4	20.3	18.9	18.9
85°	23.9	14.0	12.6	11.7	11.7
87.5°	10.8	5.9	5.9	5.4	5.0
90°	1.1	6.8	14.2	15.9	16.5
92.5°	8.5	34.1	105.7	36.1	30.1
95°	19.3	62.8	337.0	98.3	65.9
97.5°	30.7	71.9	518.2	247.2	135.2
100°	42.0	79.2	538.1	517.0	356.3
102.5°	54.0	87.8	501.2	692.4	564.2
105°	65.9	97.4	456.8	798.9	722.8
107.5°	78.4	108.8	417.6	845.8	826.2
110°	92.1	120.4	385.3	847.2	885.3

TEST NUMBER: P1012517

CATALOG NUMBER: S123RDIP-B340D585UB40-4F0-XX-W2A-F4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	104.6	132.6	363.7	815.1	897.2
115°	116.5	145.2	349.5	766.2	879.0
117.5°	128.4	157.1	339.8	714.0	839.3
120°	140.9	169.0	333.5	664.5	787.0
122.5°	151.7	180.4	329.6	625.6	738.1
125°	161.9	191.2	326.2	591.0	693.2
127.5°	169.9	201.4	324.5	562.6	654.6
130°	177.3	210.6	322.7	536.4	622.8
132.5°	183.0	218.8	322.2	512.0	591.5
135°	189.8	226.4	321.6	486.7	562.0
137.5°	196.0	232.7	320.5	462.8	530.7
140°	202.3	238.4	319.9	439.5	497.8
142.5°	209.1	243.4	318.8	418.2	467.1
145°	216.5	248.0	317.6	399.2	439.2
147.5°	223.9	252.8	315.9	384.4	415.4
150°	231.3	256.8	313.7	371.3	394.9
152.5°	238.7	261.1	310.8	360.0	377.9
155°	246.0	265.4	307.4	349.4	364.2
157.5°	251.7	269.0	304.6	339.2	351.2
160°	258.5	272.2	301.2	329.8	338.7
162.5°	263.7	274.4	297.7	321.0	327.3
165°	268.8	276.4	294.3	312.2	317.6
167.5°	272.7	278.2	290.9	304.5	308.0
170°	276.2	279.0	287.5	297.8	299.5
172.5°	278.4	279.8	284.7	291.8	291.5
175°	280.1	280.4	282.4	286.4	285.8
177.5°	281.3	280.7	280.7	283.0	281.8
180°	280.7	280.7	280.7	280.7	280.7

(END OF REPORT)