

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: P1012516

Luminaire Tested: S123RDIP-B340D585UB40-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012516
REPORT IS A COMBINATION OF REPORTS P993271 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-F1
Description: Define 3 Regressed Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865}
{m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

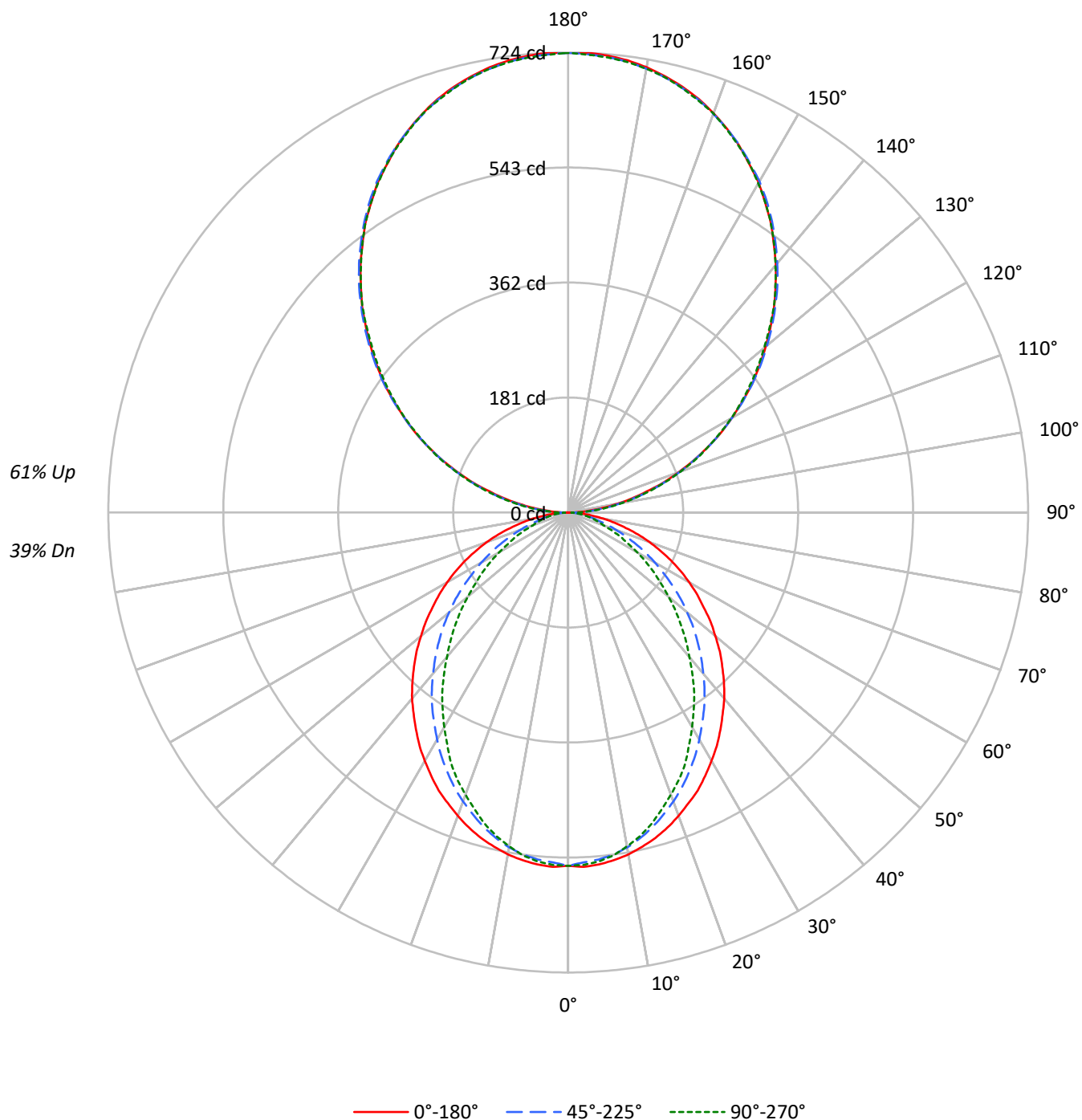
Lumens per Lamp: N/A
Luminaire Lumens: 3262.0 lumens
Efficiency: N/A
Efficacy: 114.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	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°	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

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.3	1.6
10°-20°	145.4	4.5
20°-30°	209.3	6.4
30°-40°	235.7	7.2
40°-50°	225.5	6.9
50°-60°	184.6	5.7
60°-70°	124.4	3.8
70°-80°	62.4	1.9
80°-90°	17.8	0.5
90°-100°	46.6	1.4
100°-110°	141.0	4.3
110°-120°	240.0	7.4
120°-130°	315.7	9.7
130°-140°	354.8	10.9
140°-150°	348.8	10.7
150°-160°	293.7	9.0
160°-170°	195.5	6.0
170°-180°	68.5	2.1
0°-30°	407.0	12.5
0°-40°	642.7	19.7
0°-60°	1052.8	32.3
0°-90°	1257.5	38.6
90°-120°	427.5	13.1
90°-150°	1446.8	44.4
90°-180°	2004.0	61.4
0°-180°	3262.0	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	6	14	16	17	4
95°	34	38	42	44	44	37
105°	128	129	134	134	135	137
115°	242	243	242	243	242	239
125°	354	355	354	352	350	315
135°	459	462	461	459	458	353
145°	556	558	559	559	556	347
155°	637	637	638	640	636	293
165°	694	692	692	696	692	196
175°	722	719	719	723	719	69
180°	723	723	723	723	723	

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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°	0.6	6.3	13.6	15.9	17.0
92.5°	17.0	20.5	23.9	25.6	24.4
95°	33.5	37.5	42.1	44.3	44.3
97.5°	55.1	58.0	61.4	64.2	63.6
100°	77.3	80.7	83.5	85.2	86.4
102.5°	102.9	104.6	108.5	110.2	109.7
105°	127.9	129.0	134.1	134.1	135.3
107.5°	157.4	158.0	160.3	162.0	161.4
110°	184.7	185.8	187.0	189.2	188.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	213.1	213.7	213.7	216.5	216.5
115°	241.5	243.2	242.1	242.7	242.1
117.5°	270.5	271.1	269.9	269.9	268.2
120°	297.2	300.6	297.8	297.2	296.1
122.5°	325.1	327.3	326.2	324.5	322.8
125°	353.5	355.2	354.0	351.8	349.5
127.5°	379.6	383.0	381.9	378.5	376.2
130°	405.8	410.3	408.6	406.3	402.3
132.5°	431.9	436.4	435.3	432.5	429.6
135°	458.6	462.0	461.4	459.2	458.0
137.5°	483.0	485.9	487.6	484.7	483.0
140°	508.6	511.5	512.0	511.5	507.5
142.5°	531.9	534.8	535.9	535.3	532.5
145°	556.3	557.5	559.2	558.6	556.3
147.5°	577.4	579.6	581.4	581.4	577.9
150°	599.5	600.7	601.8	601.8	598.4
152.5°	617.7	619.4	620.0	621.1	618.3
155°	637.0	637.0	637.6	639.9	635.9
157.5°	653.5	653.0	653.5	655.8	652.4
160°	668.9	667.7	667.7	670.6	668.3
162.5°	682.5	680.8	681.4	684.2	680.2
165°	693.9	692.2	692.2	695.6	691.6
167.5°	703.5	701.3	701.8	705.2	701.8
170°	711.5	709.2	709.2	713.2	709.2
172.5°	717.7	715.5	715.5	718.9	714.9
175°	721.7	719.4	719.4	722.9	718.9
177.5°	724.0	721.7	721.7	725.1	721.1
180°	723.4	723.4	723.4	723.4	723.4

(END OF REPORT)