

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: P1012527

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

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012527
REPORT IS A COMBINATION OF REPORTS P993282 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-F
Description: Define 3 Regressed Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473}
{m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

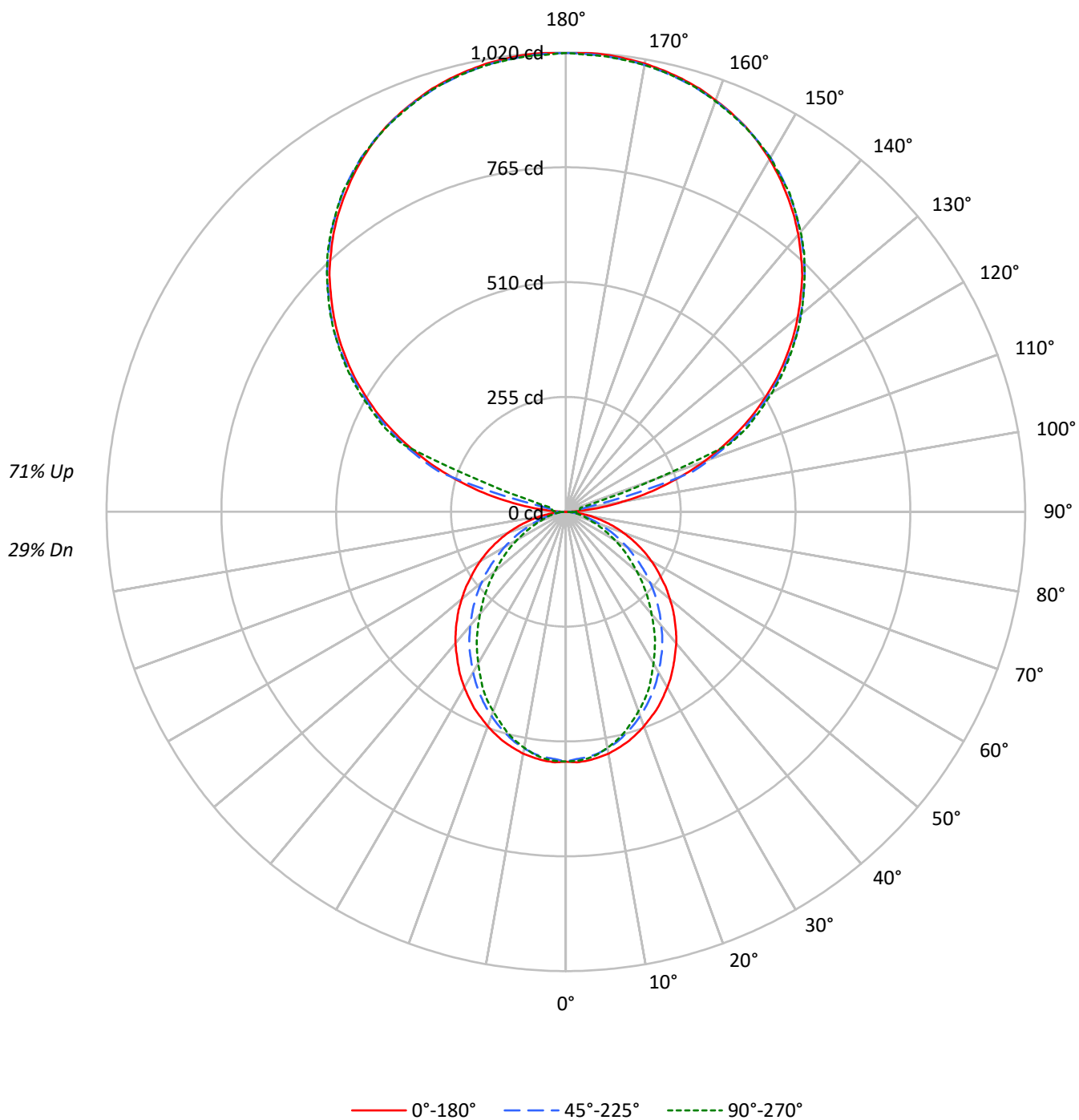
Lumens per Lamp: N/A
Luminaire Lumens: 4361.0 lumens
Efficiency: N/A
Efficacy: 127.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 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

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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	102	102	102	102	91	91	91	91	72	72	72	53	53	53	37	37	37
1	93	89	85	82	83	80	77	74	63	61	59	47	46	45	33	32	31
2	85	78	72	67	76	70	65	61	55	52	49	42	39	38	29	28	27
3	78	69	62	56	69	62	56	51	49	45	41	37	34	32	26	24	23
4	71	61	53	47	63	55	48	43	43	39	35	33	30	27	23	21	20
5	65	54	46	41	58	49	42	37	39	34	30	30	26	24	21	19	17
6	60	48	41	35	54	44	37	32	35	30	26	27	23	21	19	17	15
7	55	44	36	31	49	39	33	28	32	27	23	24	21	18	17	15	14
8	51	39	32	27	46	36	29	25	29	24	21	22	19	16	16	14	12
9	48	36	29	24	43	33	26	22	26	22	18	20	17	15	15	13	11
10	44	33	26	21	40	30	24	20	24	20	16	19	15	13	14	12	10

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

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.1	1.2
10°-20°	145.0	3.3
20°-30°	208.8	4.8
30°-40°	235.2	5.4
40°-50°	225.0	5.2
50°-60°	184.1	4.2
60°-70°	124.2	2.8
70°-80°	62.3	1.4
80°-90°	18.3	0.4
90°-100°	35.9	0.8
100°-110°	173.7	4.0
110°-120°	425.7	9.8
120°-130°	540.4	12.4
130°-140°	577.3	13.2
140°-150°	539.8	12.4
150°-160°	435.4	10.0
160°-170°	281.0	6.4
170°-180°	96.8	2.2
0°-30°	406.0	9.3
0°-40°	641.2	14.7
0°-60°	1050.3	24.1
0°-90°	1255.0	28.8
90°-120°	635.3	14.6
90°-150°	2292.7	52.6
90°-180°	3106.0	71.2
0°-180°	4361.0	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	4
95°	46	15	24	29	29	55
105°	226	234	166	32	33	239
115°	423	428	434	442	445	418
125°	596	602	606	607	609	533
135°	742	747	750	752	750	572
145°	857	862	864	865	865	536
155°	944	942	943	947	942	435
165°	995	993	992	998	993	281
175°	1019	1015	1016	1021	1015	97
180°	1019	1019	1019	1019	1019	

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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°	17.4	12.9	19.7	25.0	25.7
95°	46.2	15.1	23.5	28.8	28.8
97.5°	84.0	62.8	24.2	30.3	31.0
100°	127.9	143.1	25.0	31.0	31.8
102.5°	177.9	187.7	56.0	31.0	32.5
105°	225.6	233.9	165.8	31.8	33.3
107.5°	276.3	283.1	294.4	177.9	78.7
110°	327.0	333.0	341.4	316.4	208.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	375.4	380.7	389.1	395.9	394.4
115°	423.1	427.7	434.5	442.0	445.1
117.5°	470.1	475.3	479.1	485.2	485.9
120°	513.2	520.0	522.3	528.3	528.3
122.5°	557.1	562.4	565.4	569.2	570.0
125°	596.5	602.5	605.5	607.1	608.6
127.5°	635.8	641.9	645.7	647.9	646.4
130°	672.2	678.2	681.2	684.3	682.7
132.5°	707.0	713.0	715.3	718.3	716.1
135°	742.5	747.1	750.1	752.4	750.1
137.5°	772.8	778.9	780.4	784.2	782.7
140°	803.1	807.6	809.9	812.9	811.4
142.5°	831.1	835.6	837.9	840.2	837.9
145°	856.8	862.1	863.7	865.2	865.2
147.5°	881.8	885.6	887.1	888.6	884.8
150°	904.5	906.8	908.3	909.8	907.6
152.5°	925.0	925.7	926.5	929.5	925.7
155°	943.9	942.4	943.1	946.9	942.4
157.5°	959.0	959.0	958.3	962.8	956.8
160°	972.6	971.9	971.1	975.7	970.4
162.5°	985.5	983.2	982.5	987.8	983.2
165°	995.4	993.1	992.3	998.4	993.1
167.5°	1003.7	1000.7	1000.7	1006.7	1000.7
170°	1010.5	1007.5	1007.5	1013.5	1007.5
172.5°	1015.0	1011.3	1012.0	1018.1	1011.3
175°	1018.8	1015.0	1015.8	1021.1	1015.0
177.5°	1020.3	1016.6	1017.3	1023.4	1015.8
180°	1018.8	1018.8	1018.8	1018.8	1018.8

(END OF REPORT)