

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: P1012447

Luminaire Tested: S123RDIP-B340D1195UB30-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012447
REPORT IS A COMBINATION OF REPORTS P993180 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-B340D1195UB30-4F0-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

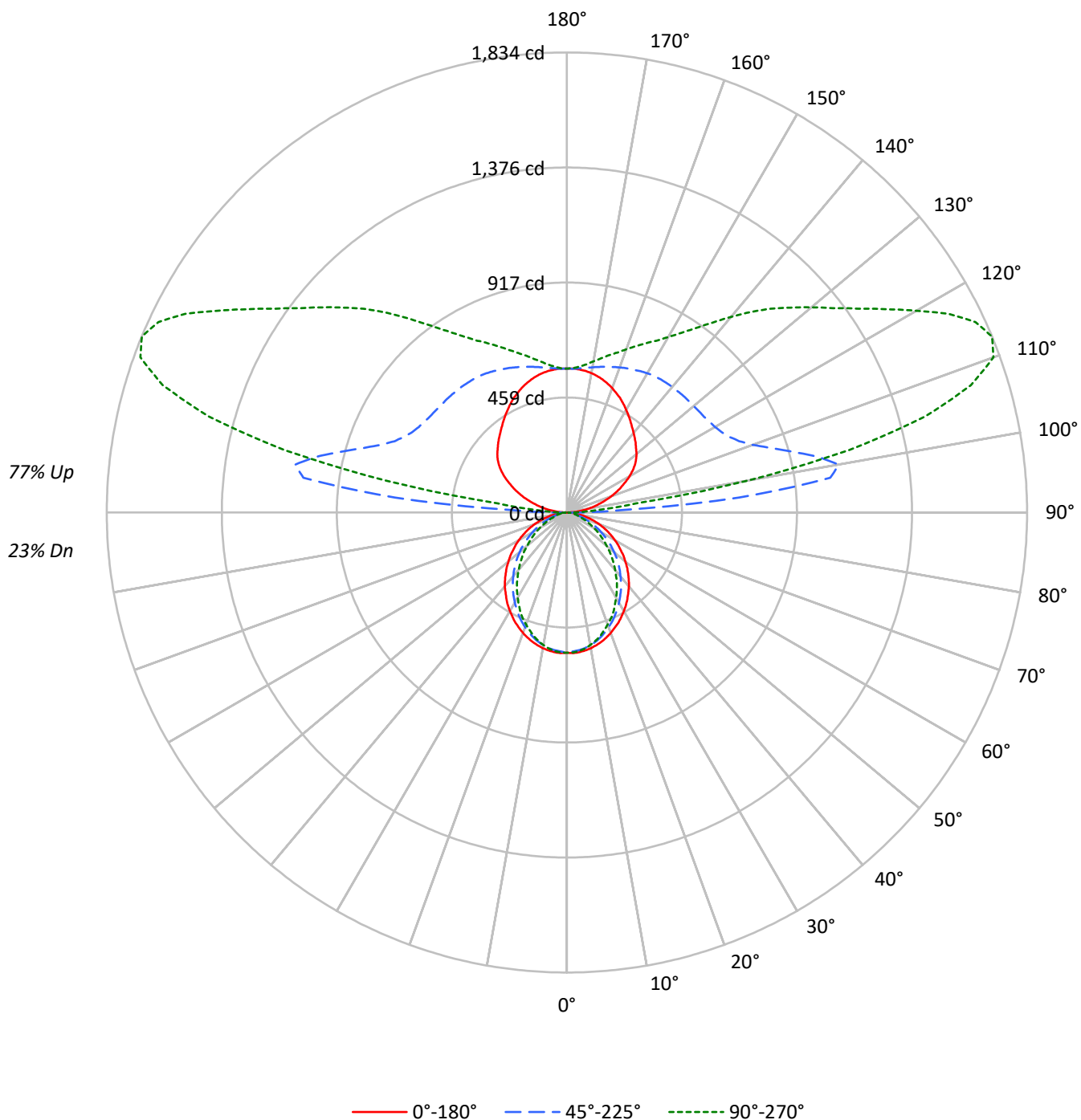
Lumens per Lamp: N/A
Luminaire Lumens: 5591.0 lumens
Efficiency: N/A
Efficacy: 116.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 48
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	50	30	10
RCR																				
0	101	101	101	101	89	89	89	89	68	68	68	49	49	49	31	31	31			23
1	92	88	84	81	81	78	75	72	60	58	56	43	42	41	28	27	26			19
2	84	77	71	66	74	68	63	59	52	49	46	38	36	34	24	23	22			16
3	76	67	61	55	67	60	54	50	46	42	39	34	31	29	22	20	19			14
4	70	60	52	47	62	53	47	42	41	37	33	30	27	25	19	18	17			12
5	64	53	45	40	57	47	41	36	37	32	29	27	24	22	18	16	15			11
6	59	47	40	34	52	42	36	31	33	28	25	24	21	19	16	14	13			9
7	54	43	35	30	48	38	32	27	30	25	22	22	19	17	15	13	11			8
8	50	39	31	26	45	35	28	24	27	23	19	20	17	15	13	12	10			8
9	47	35	28	23	41	32	25	21	25	20	17	18	15	13	12	11	9			7
10	43	32	25	21	39	29	23	19	23	18	15	17	14	12	11	10	8			6

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	0.9
10°-20°	146.2	2.6
20°-30°	210.5	3.8
30°-40°	237.1	4.2
40°-50°	226.7	4.1
50°-60°	185.6	3.3
60°-70°	125.1	2.2
70°-80°	62.8	1.1
80°-90°	19.6	0.4
90°-100°	326.0	5.8
100°-110°	911.1	16.3
110°-120°	888.4	15.9
120°-130°	707.4	12.7
130°-140°	558.4	10.0
140°-150°	416.6	7.5
150°-160°	290.6	5.2
160°-170°	170.7	3.1
170°-180°	55.5	1.0
0°-30°	409.2	7.3
0°-40°	646.3	11.6
0°-60°	1058.7	18.9
0°-90°	1266.2	22.6
90°-120°	2125.5	38.0
90°-150°	3807.9	68.1
90°-180°	4325.0	77.4
0°-180°	5591.0	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°	2	14	29	33	34	5
95°	40	128	689	201	135	42
105°	135	199	934	1633	1477	143
115°	238	297	714	1566	1796	236
125°	331	391	666	1208	1417	294
135°	388	463	657	995	1148	300
145°	442	507	649	816	898	277
155°	503	542	628	714	744	231
165°	549	565	602	638	649	155
175°	572	573	577	585	584	54
180°	574	574	574	574	574	

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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°	2.3	14.0	29.0	32.6	33.7
92.5°	17.4	69.6	216.0	73.8	61.5
95°	39.5	128.4	688.6	200.9	134.7
97.5°	62.7	146.9	1059.0	505.1	276.4
100°	85.9	162.0	1099.6	1056.6	728.1
102.5°	110.3	179.4	1024.2	1414.9	1153.0
105°	134.7	199.1	933.6	1632.6	1477.0
107.5°	160.2	222.4	853.5	1728.4	1688.3
110°	188.1	246.2	787.3	1731.4	1809.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	213.7	271.2	743.2	1665.7	1833.5
115°	238.0	296.7	714.1	1565.8	1796.3
117.5°	262.4	321.0	694.4	1459.0	1715.1
120°	288.0	345.4	681.6	1358.0	1608.2
122.5°	310.0	368.6	673.5	1278.4	1508.4
125°	330.9	390.8	666.5	1207.6	1416.6
127.5°	347.2	411.6	663.0	1149.6	1337.7
130°	362.3	430.2	659.5	1096.2	1272.6
132.5°	373.9	447.0	658.4	1046.2	1208.8
135°	387.8	462.8	657.2	994.6	1148.4
137.5°	400.6	475.5	654.9	945.8	1084.5
140°	413.4	487.1	653.7	898.2	1017.2
142.5°	427.3	497.6	651.4	854.6	954.5
145°	442.4	506.8	649.1	815.8	897.6
147.5°	457.5	516.7	645.6	785.5	848.8
150°	472.6	524.8	641.0	758.8	807.0
152.5°	487.7	533.6	635.2	735.6	772.2
155°	502.8	542.2	628.2	714.2	744.3
157.5°	514.4	549.8	622.4	693.2	717.6
160°	528.3	556.2	615.4	674.0	692.1
162.5°	538.8	560.8	608.5	656.0	668.8
165°	549.2	564.9	601.5	638.1	649.1
167.5°	557.4	568.4	594.5	622.4	629.4
170°	564.3	570.2	587.6	608.4	611.9
172.5°	569.0	571.9	581.7	596.2	595.7
175°	572.5	573.0	577.1	585.2	584.1
177.5°	574.8	573.6	573.6	578.3	575.9
180°	573.6	573.6	573.6	573.6	573.6

(END OF REPORT)