

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: P1012417

Luminaire Tested: S123RDIP-B340D1025UB30-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012417
REPORT IS A COMBINATION OF REPORTS P993140 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-B340D1025UB30-4F0-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

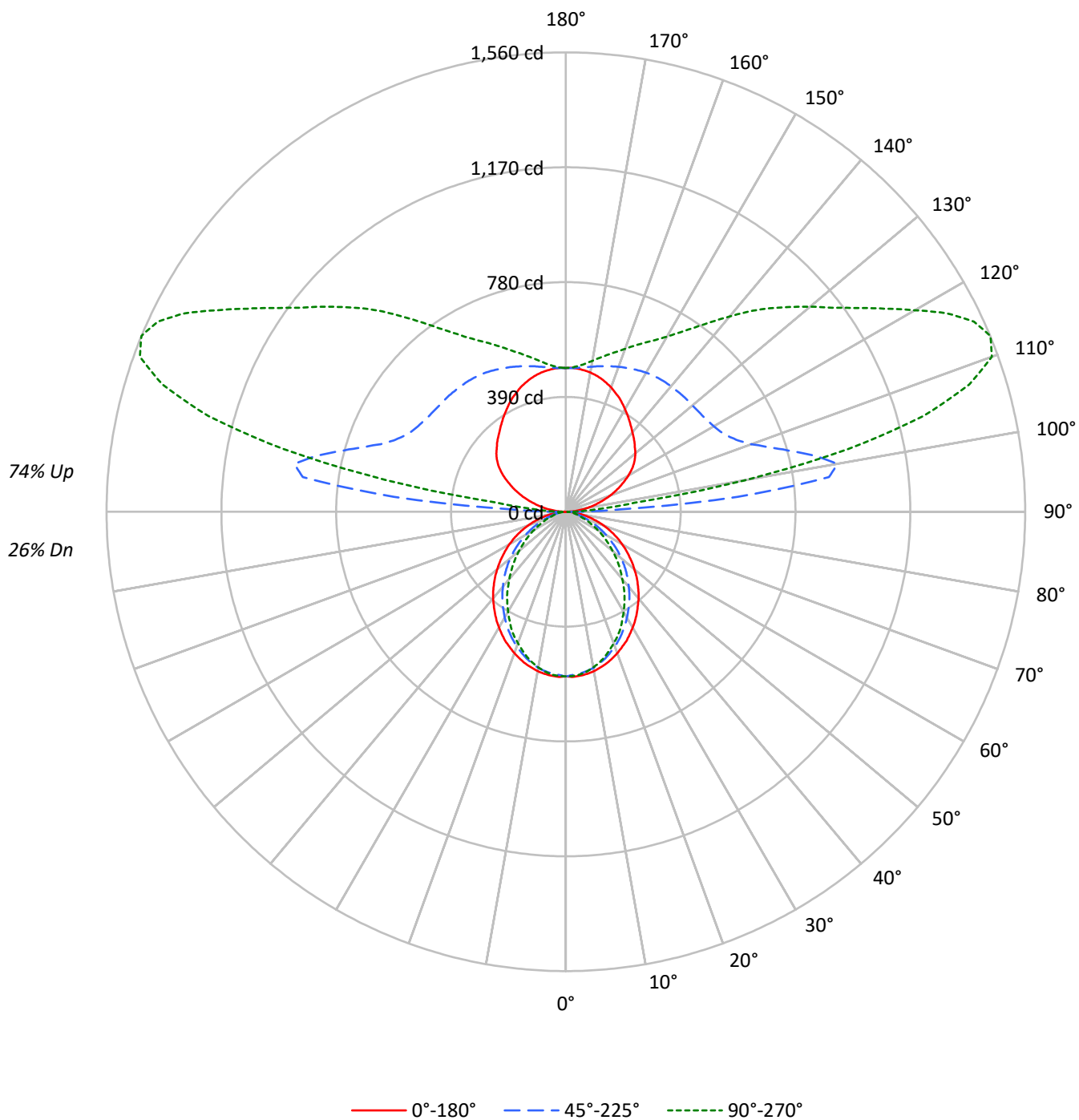
Lumens per Lamp: N/A
Luminaire Lumens: 4946.5 lumens
Efficiency: N/A
Efficacy: 119.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 41.5
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	101	101	101	101	90	90	90	90	70	70	70	51	51	51	34	34	34
1	92	88	85	81	82	79	76	73	61	59	57	45	44	43	30	29	29
2	84	77	72	67	75	69	64	60	54	51	48	40	38	36	27	25	24
3	77	68	61	56	68	61	55	50	48	44	40	35	33	30	24	22	21
4	70	60	53	47	62	54	48	43	42	38	34	31	28	26	21	20	18
5	65	53	46	40	57	48	41	37	38	33	29	28	25	23	19	17	16
6	59	48	40	35	53	43	36	32	34	29	26	25	22	20	17	15	14
7	55	43	36	30	49	39	32	28	31	26	22	23	20	17	16	14	12
8	51	39	32	27	45	35	29	24	28	23	20	21	18	15	15	13	11
9	47	35	28	24	42	32	26	22	25	21	18	19	16	14	13	11	10
10	44	32	26	21	39	29	23	19	23	19	16	18	15	12	12	11	9

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	1.1
10°-20°	146.2	3.0
20°-30°	210.5	4.3
30°-40°	237.1	4.8
40°-50°	226.7	4.6
50°-60°	185.6	3.8
60°-70°	125.1	2.5
70°-80°	62.8	1.3
80°-90°	19.1	0.4
90°-100°	277.4	5.6
100°-110°	775.4	15.7
110°-120°	756.1	15.3
120°-130°	602.1	12.2
130°-140°	475.2	9.6
140°-150°	354.6	7.2
150°-160°	247.4	5.0
160°-170°	145.3	2.9
170°-180°	47.3	1.0
0°-30°	409.2	8.3
0°-40°	646.3	13.1
0°-60°	1058.7	21.4
0°-90°	1265.7	25.6
90°-120°	1809.0	36.6
90°-150°	3240.9	65.5
90°-180°	3681.0	74.4
0°-180°	4946.5	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	12	25	28	29	4
95°	34	109	586	171	115	36
105°	115	170	795	1389	1257	122
115°	203	252	608	1333	1529	201
125°	282	332	567	1028	1206	250
135°	330	394	559	846	977	255
145°	376	431	552	694	764	236
155°	428	462	535	608	634	197
165°	467	481	512	543	552	132
175°	487	488	491	498	497	46
180°	488	488	488	488	488	

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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°	2.0	11.9	24.7	27.7	28.7
92.5°	14.8	59.3	183.8	62.8	52.4
95°	33.6	109.2	586.0	171.0	114.6
97.5°	53.4	125.0	901.3	429.9	235.2
100°	73.1	137.8	935.9	899.4	619.6
102.5°	93.9	152.7	871.6	1204.2	981.3
105°	114.6	169.5	794.6	1389.4	1257.1
107.5°	136.4	189.2	726.4	1471.1	1436.9
110°	160.1	209.5	670.0	1473.5	1539.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	181.8	230.8	632.5	1417.6	1560.5
115°	202.6	252.5	607.8	1332.6	1528.8
117.5°	223.3	273.2	591.0	1241.8	1459.7
120°	245.1	294.0	580.1	1155.8	1368.7
122.5°	263.9	313.8	573.2	1088.0	1283.8
125°	281.7	332.5	567.3	1027.8	1205.7
127.5°	295.5	350.4	564.3	978.4	1138.5
130°	308.3	366.2	561.3	932.9	1083.1
132.5°	318.2	380.5	560.3	890.4	1028.8
135°	330.1	393.8	559.4	846.4	977.4
137.5°	341.0	404.6	557.4	804.9	923.0
140°	351.8	414.6	556.4	764.4	865.7
142.5°	363.7	423.4	554.4	727.4	812.4
145°	376.5	431.4	552.4	694.2	763.9
147.5°	389.4	439.8	549.5	668.6	722.4
150°	402.2	446.7	545.5	645.8	686.8
152.5°	415.1	454.1	540.6	626.1	657.2
155°	427.9	461.5	534.6	607.8	633.5
157.5°	437.8	468.0	529.7	590.0	610.7
160°	449.7	473.4	523.8	573.7	589.0
162.5°	458.6	477.4	517.8	558.3	569.2
165°	467.4	480.8	511.9	543.0	552.4
167.5°	474.4	483.8	506.0	529.7	535.6
170°	480.3	485.2	500.1	517.8	520.8
172.5°	484.2	486.7	495.1	507.5	507.0
175°	487.2	487.7	491.2	498.1	497.1
177.5°	489.2	488.2	488.2	492.2	490.2
180°	488.2	488.2	488.2	488.2	488.2

(END OF REPORT)