

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: P1012476

Luminaire Tested: S123RDIP-B340D365UB30-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012476
REPORT IS A COMBINATION OF REPORTS P993219 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-B340D365UB30-4F0-XX-W2A-F1
Description: Define 3 Regressed Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589}
{m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

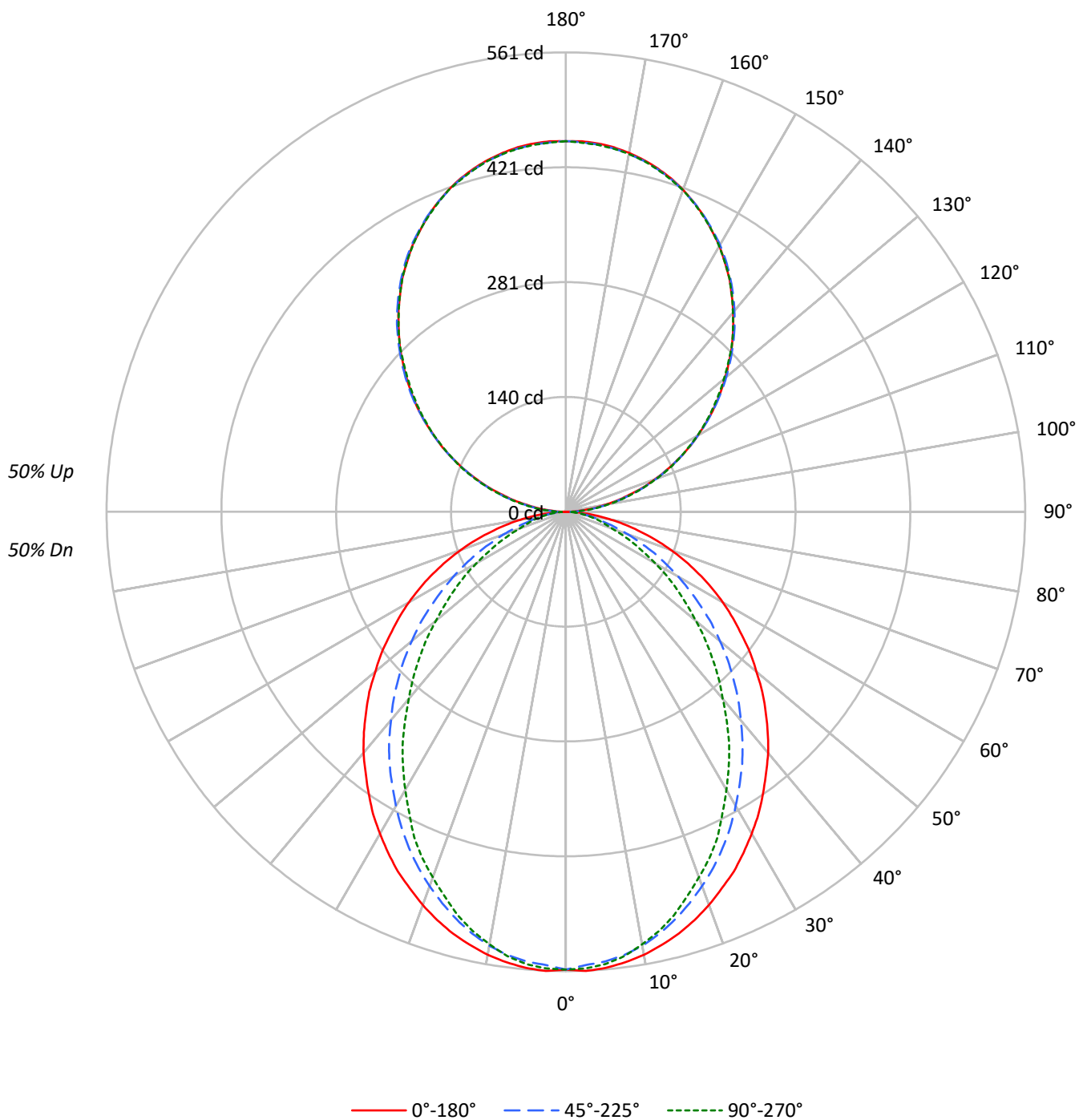
Lumens per Lamp: N/A
Luminaire Lumens: 2518.0 lumens
Efficiency: N/A
Efficacy: 112.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 22.3
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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	56	56	50
1	98	94	90	87	90	87	84	81	74	71	69	61	60	58	50	49	48	48	48	43
2	90	82	76	71	83	76	71	67	65	61	58	54	52	49	45	43	41	41	41	36
3	82	73	66	60	75	67	61	56	58	53	49	48	45	42	40	37	35	35	35	31
4	75	65	57	51	69	60	53	48	51	46	42	43	39	36	36	33	31	31	31	27
5	69	58	50	44	64	54	47	41	46	41	36	39	35	32	32	29	27	27	27	24
6	64	52	44	38	59	48	41	36	42	36	32	35	31	28	29	26	24	24	24	21
7	59	47	39	34	54	44	37	32	38	32	28	32	28	25	27	24	21	21	21	19
8	55	43	35	30	51	40	33	28	35	29	25	30	25	22	25	22	19	19	19	17
9	51	39	32	27	47	36	30	25	32	26	23	27	23	20	23	20	17	17	17	15
10	48	36	29	24	44	34	27	23	29	24	20	25	21	18	21	18	16	16	16	14

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	2.1
10°-20°	146.2	5.8
20°-30°	210.5	8.4
30°-40°	237.1	9.4
40°-50°	226.7	9.0
50°-60°	185.6	7.4
60°-70°	125.1	5.0
70°-80°	62.8	2.5
80°-90°	17.4	0.7
90°-100°	29.1	1.2
100°-110°	88.2	3.5
110°-120°	150.1	6.0
120°-130°	197.5	7.8
130°-140°	222.0	8.8
140°-150°	218.2	8.7
150°-160°	183.7	7.3
160°-170°	122.3	4.9
170°-180°	42.8	1.7
0°-30°	409.2	16.3
0°-40°	646.3	25.7
0°-60°	1058.7	42.0
0°-90°	1263.9	50.2
90°-120°	267.5	10.6
90°-150°	905.2	35.9
90°-180°	1254.0	49.8
0°-180°	2518.0	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°	0	4	8	10	11	3
95°	21	24	26	28	28	23
105°	80	81	84	84	85	86
115°	151	152	152	152	152	150
125°	221	222	222	220	219	197
135°	287	289	289	287	287	221
145°	348	349	350	350	348	217
155°	398	398	399	400	398	183
165°	434	433	433	435	433	122
175°	452	450	450	452	450	43
180°	453	453	453	453	453	

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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°	0.4	3.9	8.5	10.0	10.7
92.5°	10.7	12.8	14.9	16.0	15.3
95°	21.0	23.5	26.3	27.7	27.7
97.5°	34.5	36.3	38.4	40.2	39.8
100°	48.4	50.5	52.3	53.3	54.0
102.5°	64.4	65.4	67.9	69.0	68.6
105°	80.0	80.7	83.9	83.9	84.6
107.5°	98.5	98.8	100.3	101.3	101.0
110°	115.5	116.3	117.0	118.4	117.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	133.3	133.7	133.7	135.5	135.5
115°	151.1	152.2	151.5	151.8	151.5
117.5°	169.2	169.6	168.9	168.9	167.8
120°	185.9	188.1	186.3	185.9	185.2
122.5°	203.4	204.8	204.1	203.0	201.9
125°	221.1	222.2	221.5	220.1	218.7
127.5°	237.5	239.6	238.9	236.8	235.4
130°	253.8	256.7	255.6	254.2	251.7
132.5°	270.2	273.0	272.3	270.6	268.8
135°	286.9	289.0	288.7	287.3	286.6
137.5°	302.2	304.0	305.0	303.3	302.2
140°	318.2	320.0	320.3	320.0	317.5
142.5°	332.8	334.6	335.3	334.9	333.1
145°	348.1	348.8	349.8	349.5	348.1
147.5°	361.2	362.6	363.7	363.7	361.6
150°	375.1	375.8	376.5	376.5	374.4
152.5°	386.5	387.5	387.9	388.6	386.8
155°	398.5	398.5	398.9	400.3	397.8
157.5°	408.9	408.5	408.9	410.3	408.1
160°	418.5	417.7	417.7	419.5	418.1
162.5°	427.0	425.9	426.3	428.1	425.6
165°	434.1	433.0	433.0	435.2	432.7
167.5°	440.1	438.7	439.1	441.2	439.1
170°	445.1	443.7	443.7	446.2	443.7
172.5°	449.0	447.6	447.6	449.7	447.3
175°	451.5	450.1	450.1	452.2	449.7
177.5°	452.9	451.5	451.5	453.7	451.2
180°	452.6	452.6	452.6	452.6	452.6

(END OF REPORT)