

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: P1032339

Luminaire Tested: S123RDIW-B560D460UB35-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1032339
REPORT IS A COMBINATION OF REPORTS P994541 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIW-B560D460UB35-4F0-XX-W2A-F1
Description: Define 3 Regressed Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721}
{m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

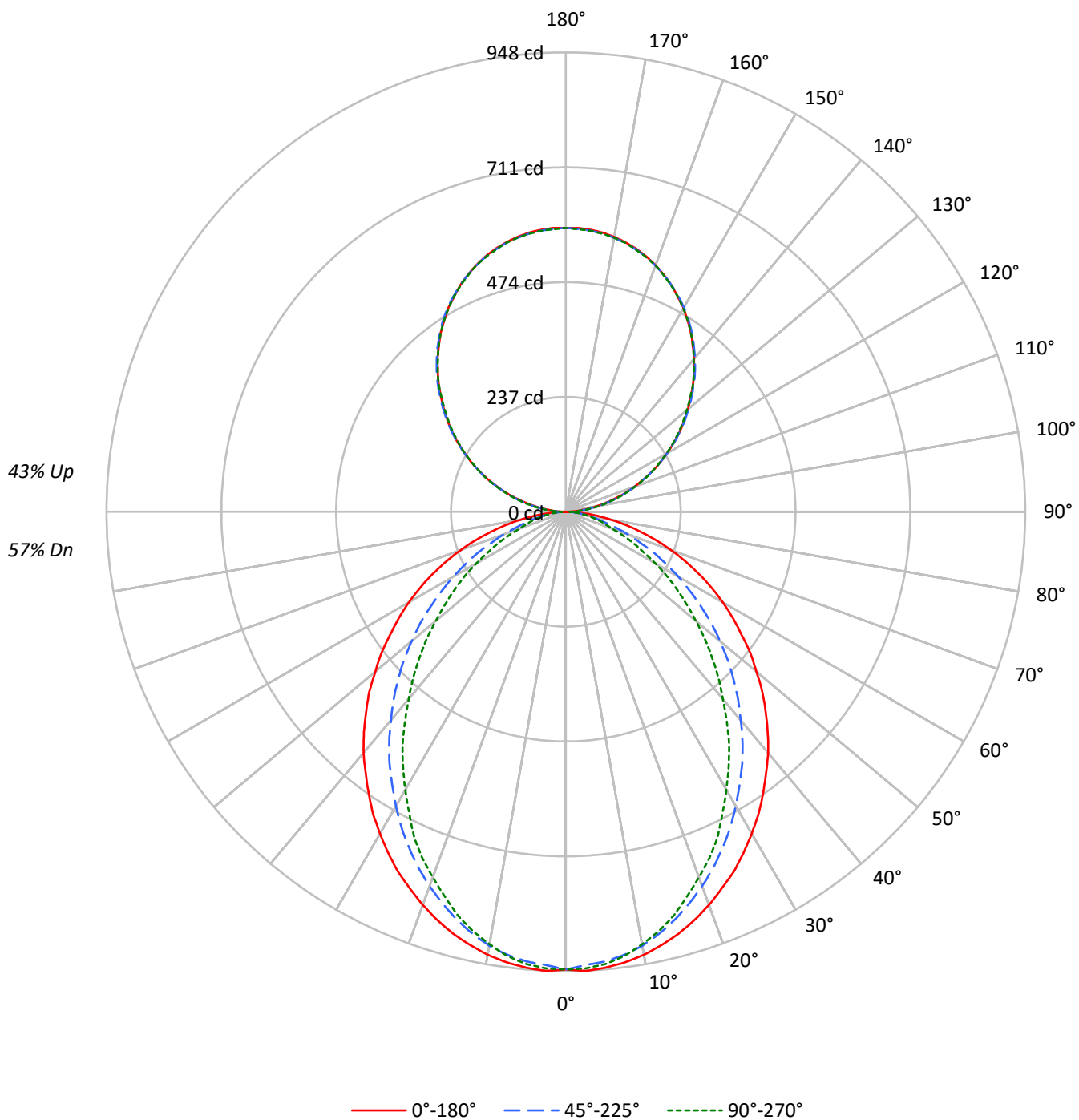
Lumens per Lamp: N/A
Luminaire Lumens: 3758.0 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 37.2
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	109	109	109	109		101	101	101	101		87	87	87		74	74	74		62	62	62
1	100	95	92	88		93	89	86	83		77	75	72		66	64	63		56	55	53
2	91	84	78	73		85	78	73	69		68	64	61		58	55	53		50	47	46
3	83	74	67	61		77	69	63	58		60	55	51		52	48	45		44	41	39
4	76	66	58	52		71	62	55	49		54	48	44		46	42	39		40	37	34
5	70	59	51	45		65	55	48	43		48	43	38		42	37	34		36	33	30
6	65	53	45	39		60	50	42	37		44	38	34		38	33	30		33	29	26
7	60	48	40	34		56	45	38	33		40	34	30		35	30	27		30	26	24
8	56	44	36	31		52	41	34	29		36	31	27		32	27	24		28	24	21
9	52	40	32	27		49	38	31	26		33	28	24		29	25	22		26	22	19
10	49	37	29	25		45	35	28	24		31	25	22		27	23	20		24	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10168	10168	10168
5°	10184	9808	9781
10°	10104	9440	9253
15°	9972	8983	8675
20°	9801	8487	8028
25°	9623	7972	7415
30°	9396	7425	6691
35°	9161	6886	6032
40°	8940	6301	5303
45°	8658	5730	4648
50°	8347	5119	3970
55°	8023	4466	3349
60°	7715	3796	2718
65°	7315	3108	2122
70°	6814	2351	1516
75°	6090	1592	1201
80°	5201	1107	842
85°	3900	599	441

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8658 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.8	2.4
10°-20°	247.0	6.6
20°-30°	355.7	9.5
30°-40°	400.5	10.7
40°-50°	383.1	10.2
50°-60°	313.6	8.3
60°-70°	211.5	5.6
70°-80°	106.1	2.8
80°-90°	29.0	0.8
90°-100°	37.7	1.0
100°-110°	114.1	3.0
110°-120°	194.3	5.2
120°-130°	255.6	6.8
130°-140°	287.3	7.6
140°-150°	282.4	7.5
150°-160°	237.8	6.3
160°-170°	158.3	4.2
170°-180°	55.4	1.5
0°-30°	691.5	18.4
0°-40°	1092.0	29.1
0°-60°	1788.8	47.6
0°-90°	2135.3	56.8
90°-120°	346.1	9.2
90°-150°	1171.3	31.2
90°-180°	1623.0	43.2
0°-180°	3758.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	945	945	945	945	945	
5°	945	941	932	938	937	90
15°	901	892	871	867	862	254
25°	820	801	765	749	741	377
35°	709	682	634	601	588	444
45°	583	548	490	446	428	450
55°	443	405	340	296	280	397
65°	303	260	201	163	155	299
75°	160	123	81	74	72	171
85°	41	24	22	20	20	44
90°	0	5	11	13	14	5
95°	27	30	34	36	36	30
105°	104	104	109	109	110	111
115°	196	197	196	196	196	193
125°	286	288	287	285	283	255
135°	371	374	374	372	371	286
145°	450	451	453	452	450	281
155°	516	516	516	518	515	237
165°	562	560	560	563	560	158
175°	584	582	582	585	582	56
180°	586	586	586	586	586	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	944.6	944.6	944.6	944.6	944.6
2.5°	948.4	945.4	936.2	944.6	943.1
5°	944.6	940.8	931.6	938.5	936.9
7.5°	937.7	933.9	922.4	927.0	924.7
10°	928.5	923.1	909.4	910.1	906.3
12.5°	915.5	909.4	891.7	891.0	886.4
15°	900.9	892.5	871.0	867.2	861.9
17.5°	883.3	874.1	847.3	839.6	832.0
20°	863.4	851.1	822.0	812.1	802.9
22.5°	841.2	826.6	795.2	782.2	773.8
25°	819.7	800.6	765.3	749.2	740.8
27.5°	793.7	773.0	734.7	713.2	700.2
30°	766.9	743.9	701.0	674.9	662.7
32.5°	740.0	713.2	667.3	638.2	625.1
35°	709.4	681.8	634.3	601.4	587.6
37.5°	678.8	648.9	599.1	562.3	545.5
40°	649.6	615.9	561.5	521.7	504.1
42.5°	616.7	583.0	526.3	481.9	466.6
45°	583.0	548.5	489.5	445.9	427.5
47.5°	550.1	511.7	453.5	406.0	389.9
50°	513.3	477.3	415.2	367.7	350.1
52.5°	480.3	440.5	379.2	329.4	314.1
55°	442.8	405.3	340.1	295.7	280.4
57.5°	409.1	368.5	302.6	260.5	247.4
60°	373.9	331.7	268.1	226.8	213.7
62.5°	338.6	296.5	232.9	194.6	180.8
65°	302.6	260.5	200.7	163.2	154.8
67.5°	266.6	223.7	165.5	137.1	127.9
70°	231.4	190.0	136.4	109.6	101.1
72.5°	196.1	155.5	108.0	87.3	85.0
75°	160.1	123.3	81.2	73.5	72.0
77.5°	127.2	93.5	63.6	59.0	57.5
80°	95.8	64.4	48.3	46.0	44.4
82.5°	65.9	39.8	34.5	32.2	32.2
85°	40.6	23.7	21.5	19.9	19.9
87.5°	18.4	10.0	10.0	9.2	8.4
90°	0.5	5.1	11.0	12.9	13.8
92.5°	13.8	16.6	19.3	20.7	19.8
95°	27.1	30.4	34.0	35.9	35.9
97.5°	44.6	46.9	49.7	52.0	51.5
100°	62.6	65.3	67.6	69.0	69.9
102.5°	83.3	84.7	87.9	89.3	88.8
105°	103.5	104.4	108.6	108.6	109.5
107.5°	127.4	127.9	129.7	131.1	130.7
110°	149.5	150.4	151.4	153.2	152.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	172.5	173.0	173.0	175.3	175.3
115°	195.5	196.9	196.0	196.4	196.0
117.5°	219.0	219.5	218.5	218.5	217.2
120°	240.6	243.4	241.1	240.6	239.7
122.5°	263.2	265.0	264.1	262.7	261.3
125°	286.2	287.5	286.6	284.8	282.9
127.5°	307.3	310.1	309.2	306.4	304.6
130°	328.5	332.2	330.8	328.9	325.7
132.5°	349.6	353.3	352.4	350.1	347.8
135°	371.3	374.0	373.6	371.7	370.8
137.5°	391.1	393.4	394.7	392.4	391.1
140°	411.8	414.1	414.5	414.1	410.8
142.5°	430.6	432.9	433.8	433.4	431.1
145°	450.4	451.3	452.7	452.2	450.4
147.5°	467.4	469.3	470.6	470.6	467.9
150°	485.4	486.3	487.2	487.2	484.4
152.5°	500.1	501.5	501.9	502.9	500.5
155°	515.7	515.7	516.2	518.0	514.8
157.5°	529.1	528.6	529.1	530.9	528.2
160°	541.5	540.6	540.6	542.9	541.0
162.5°	552.5	551.2	551.6	553.9	550.7
165°	561.7	560.4	560.4	563.1	559.9
167.5°	569.6	567.7	568.2	570.9	568.2
170°	576.0	574.2	574.2	577.4	574.2
172.5°	581.1	579.2	579.2	582.0	578.8
175°	584.3	582.4	582.4	585.2	582.0
177.5°	586.1	584.3	584.3	587.0	583.8
180°	585.7	585.7	585.7	585.7	585.7

(END OF REPORT)