

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: P1032343

Luminaire Tested: S123RDIW-B560D460UB40-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1032343
REPORT IS A COMBINATION OF REPORTS P994547 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIW-B560D460UB40-4F0-XX-W2A-F1
Description: Define 3 Regressed Direct/Indirect Wall Mount with 4000K BioUP LEDs {m-DER=0.865}
{m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

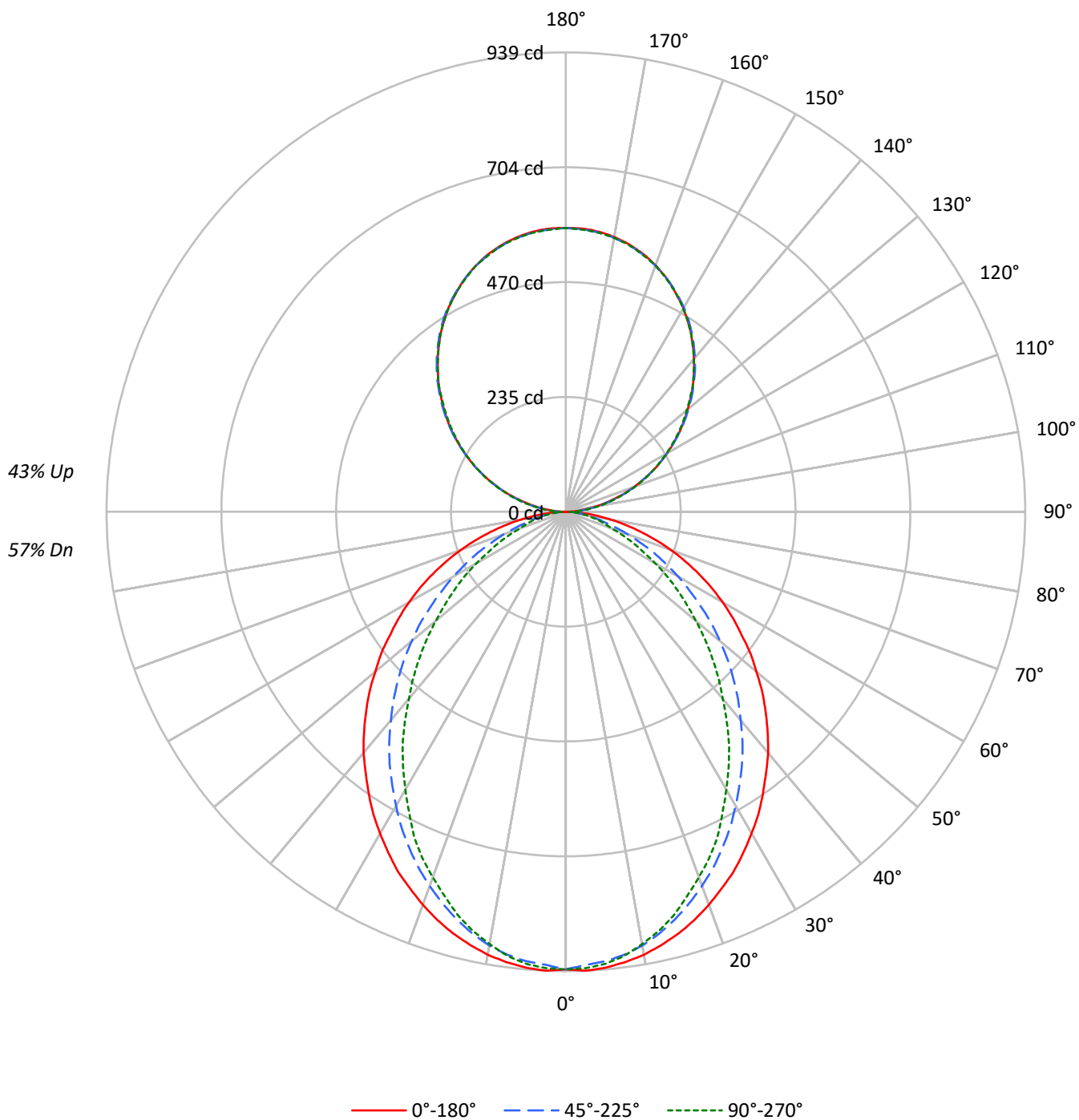
Lumens per Lamp: N/A
Luminaire Lumens: 3721.0 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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°	10067	10067	10067
5°	10084	9711	9685
10°	10005	9346	9162
15°	9875	8895	8589
20°	9704	8404	7949
25°	9529	7894	7342
30°	9303	7352	6625
35°	9071	6819	5972
40°	8853	6239	5251
45°	8574	5673	4603
50°	8264	5069	3932
55°	7944	4422	3316
60°	7639	3759	2691
65°	7242	3077	2100
70°	6747	2327	1501
75°	6029	1576	1190
80°	5147	1096	834
85°	3861	590	437

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8574 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.9	2.4
10°-20°	244.6	6.6
20°-30°	352.2	9.5
30°-40°	396.6	10.7
40°-50°	379.4	10.2
50°-60°	310.5	8.3
60°-70°	209.4	5.6
70°-80°	105.0	2.8
80°-90°	28.7	0.8
90°-100°	37.3	1.0
100°-110°	113.0	3.0
110°-120°	192.4	5.2
120°-130°	253.0	6.8
130°-140°	284.4	7.6
140°-150°	279.6	7.5
150°-160°	235.4	6.3
160°-170°	156.7	4.2
170°-180°	54.9	1.5
0°-30°	684.7	18.4
0°-40°	1081.3	29.1
0°-60°	1771.2	47.6
0°-90°	2114.2	56.8
90°-120°	342.7	9.2
90°-150°	1159.8	31.2
90°-180°	1607.0	43.2
0°-180°	3721.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	935	935	935	935	935	
5°	935	932	922	929	928	89
15°	892	884	862	859	853	251
25°	812	793	758	742	734	373
35°	702	675	628	596	582	440
45°	577	543	485	442	423	445
55°	438	401	337	293	278	393
65°	300	258	199	162	153	297
75°	158	122	80	73	71	169
85°	40	24	21	20	20	44
90°	0	5	11	13	14	5
95°	27	30	34	36	36	30
105°	102	103	108	108	108	110
115°	194	195	194	194	194	192
125°	283	285	284	282	280	253
135°	368	370	370	368	367	283
145°	446	447	448	448	446	279
155°	511	511	511	513	510	235
165°	556	555	555	558	554	157
175°	578	577	577	579	576	55
180°	580	580	580	580	580	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	935.3	935.3	935.3	935.3	935.3
2.5°	939.1	936.1	927.0	935.3	933.8
5°	935.3	931.5	922.4	929.2	927.7
7.5°	928.5	924.7	913.3	917.8	915.6
10°	919.4	914.1	900.4	901.2	897.4
12.5°	906.5	900.4	883.0	882.2	877.6
15°	892.1	883.7	862.5	858.7	853.4
17.5°	874.6	865.5	839.0	831.4	823.8
20°	854.9	842.8	813.9	804.1	795.0
22.5°	832.9	818.5	787.4	774.5	766.1
25°	811.7	792.7	757.8	741.9	733.5
27.5°	785.9	765.4	727.5	706.2	693.3
30°	759.3	736.6	694.1	668.3	656.1
32.5°	732.8	706.2	660.7	631.9	619.0
35°	702.4	675.1	628.1	595.5	581.8
37.5°	672.1	642.5	593.2	556.8	540.1
40°	643.3	609.9	556.0	516.6	499.1
42.5°	610.6	577.3	521.1	477.1	462.0
45°	577.3	543.1	484.7	441.5	423.3
47.5°	544.6	506.7	449.1	402.0	386.1
50°	508.2	472.6	411.1	364.1	346.7
52.5°	475.6	436.2	375.5	326.2	311.0
55°	438.4	401.3	336.8	292.8	277.6
57.5°	405.1	364.9	299.6	257.9	245.0
60°	370.2	328.5	265.5	224.5	211.6
62.5°	335.3	293.6	230.6	192.7	179.0
65°	299.6	257.9	198.7	161.6	153.2
67.5°	264.0	221.5	163.8	135.8	126.7
70°	229.1	188.1	135.0	108.5	100.1
72.5°	194.2	154.0	107.0	86.5	84.2
75°	158.5	122.1	80.4	72.8	71.3
77.5°	125.9	92.5	63.0	58.4	56.9
80°	94.8	63.7	47.8	45.5	44.0
82.5°	65.2	39.4	34.1	31.9	31.9
85°	40.2	23.5	21.2	19.7	19.7
87.5°	18.2	9.9	9.9	9.1	8.3
90°	0.5	5.0	10.9	12.8	13.7
92.5°	13.7	16.4	19.1	20.5	19.6
95°	26.9	30.1	33.7	35.5	35.5
97.5°	44.2	46.5	49.2	51.5	51.0
100°	62.0	64.7	67.0	68.3	69.2
102.5°	82.5	83.8	87.0	88.4	87.9
105°	102.5	103.4	107.5	107.5	108.4
107.5°	126.2	126.6	128.5	129.8	129.4
110°	148.0	149.0	149.9	151.7	150.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	170.8	171.3	171.3	173.6	173.6
115°	193.6	195.0	194.1	194.5	194.1
117.5°	216.8	217.3	216.4	216.4	215.0
120°	238.2	241.0	238.7	238.2	237.3
122.5°	260.6	262.4	261.5	260.1	258.7
125°	283.3	284.7	283.8	282.0	280.2
127.5°	304.3	307.0	306.1	303.4	301.6
130°	325.2	328.9	327.5	325.7	322.5
132.5°	346.2	349.8	348.9	346.7	344.4
135°	367.6	370.3	369.9	368.1	367.2
137.5°	387.2	389.5	390.8	388.6	387.2
140°	407.7	410.0	410.4	410.0	406.8
142.5°	426.4	428.7	429.6	429.1	426.8
145°	446.0	446.9	448.2	447.8	446.0
147.5°	462.8	464.6	466.0	466.0	463.3
150°	480.6	481.5	482.4	482.4	479.7
152.5°	495.2	496.5	497.0	497.9	495.6
155°	510.7	510.7	511.1	512.9	509.7
157.5°	523.9	523.4	523.9	525.7	523.0
160°	536.2	535.2	535.2	537.5	535.7
162.5°	547.1	545.7	546.2	548.5	545.3
165°	556.2	554.8	554.8	557.6	554.4
167.5°	563.9	562.1	562.6	565.3	562.6
170°	570.3	568.5	568.5	571.7	568.5
172.5°	575.3	573.5	573.5	576.2	573.1
175°	578.5	576.7	576.7	579.4	576.2
177.5°	580.3	578.5	578.5	581.3	578.1
180°	579.9	579.9	579.9	579.9	579.9

(END OF REPORT)