

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: P1031201

Luminaire Tested: S123RDIW-B560D460UB2750-4F0-XX-W2A-F_3000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1031201
REPORT IS A COMBINATION OF REPORTS P994527 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIW-B560D460UB2750-4F0-XX-W2A-F_3000K
Description: Define 3 Regressed Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589}
{m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

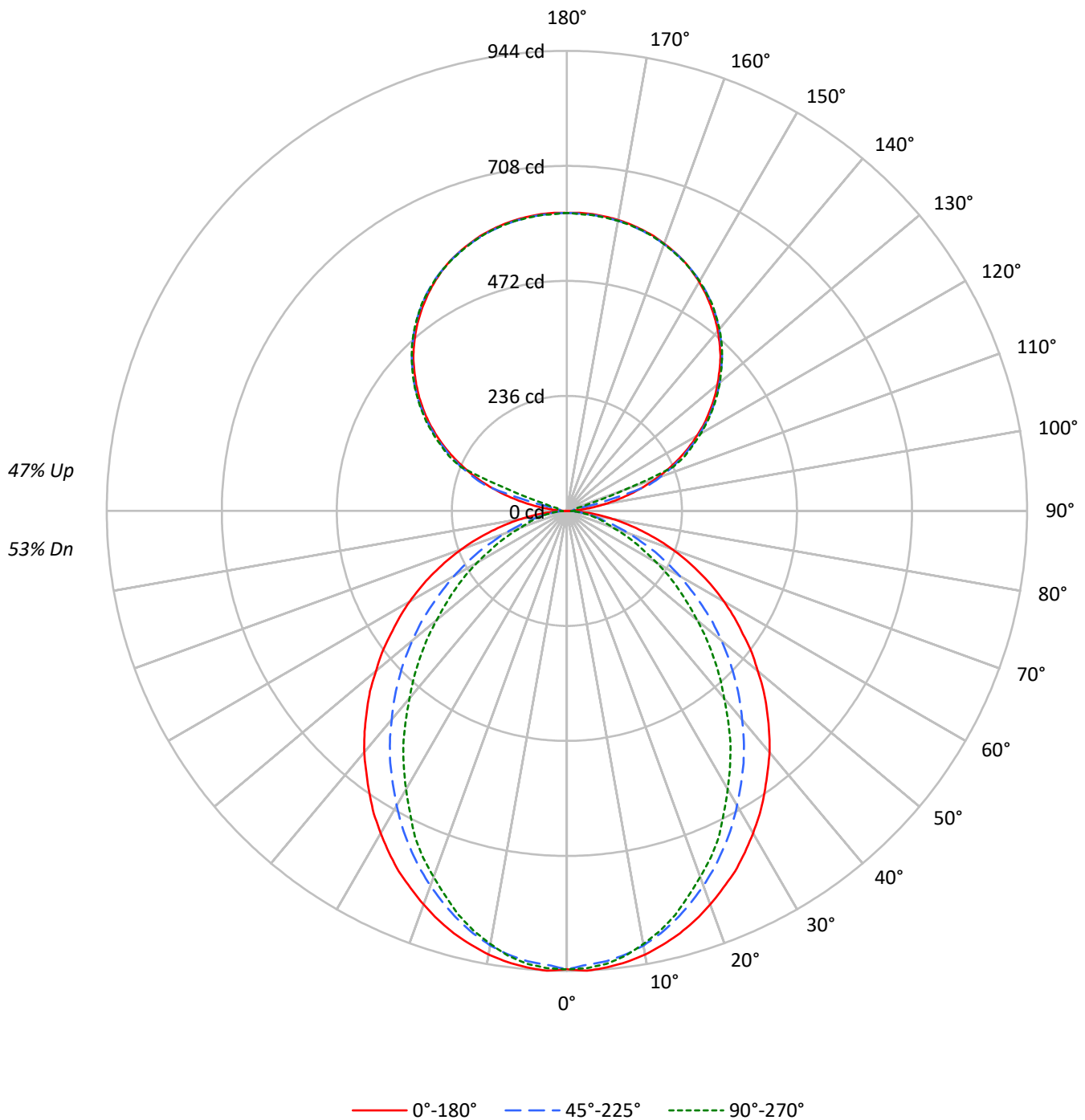
Lumens per Lamp: N/A
Luminaire Lumens: 3990.0 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	50	30	10
RCR																				
0	108	108	108	108	100	100	100	100	85	85	85	72	72	72	59	59	59	59	59	59
1	99	95	91	87	91	88	85	82	75	73	71	64	62	60	53	52	51	51	51	51
2	90	83	77	72	83	77	72	68	66	62	59	56	53	51	47	45	43	43	43	43
3	83	73	66	60	76	68	62	57	59	54	50	50	46	43	42	39	37	37	37	37
4	76	65	57	51	70	61	54	49	52	47	43	45	41	38	38	35	32	32	32	32
5	70	58	50	44	64	54	47	42	47	42	37	40	36	33	34	31	28	28	28	28
6	64	52	44	39	59	49	42	37	43	37	33	37	32	29	31	28	25	25	25	25
7	59	47	39	34	55	44	37	32	39	33	29	33	29	26	28	25	22	22	22	22
8	55	43	35	30	51	40	33	29	35	30	26	31	26	23	26	23	20	20	20	20
9	52	39	32	27	48	37	30	26	32	27	23	28	24	21	24	21	18	18	18	18
10	48	36	29	24	45	34	28	23	30	25	21	26	22	19	22	19	17	17	17	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10125	10125	10125
5°	10141	9766	9740
10°	10061	9399	9214
15°	9930	8946	8638
20°	9759	8451	7994
25°	9583	7939	7384
30°	9356	7393	6663
35°	9123	6857	6006
40°	8903	6275	5281
45°	8621	5706	4629
50°	8311	5098	3953
55°	7989	4447	3335
60°	7682	3780	2706
65°	7284	3096	2113
70°	6785	2341	1510
75°	6063	1586	1196
80°	5179	1103	838
85°	3881	596	439

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 8621 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.4	2.2
10°-20°	246.0	6.2
20°-30°	354.2	8.9
30°-40°	398.8	10.0
40°-50°	381.5	9.6
50°-60°	312.3	7.8
60°-70°	210.6	5.3
70°-80°	105.6	2.6
80°-90°	28.8	0.7
90°-100°	21.6	0.5
100°-110°	104.2	2.6
110°-120°	255.4	6.4
120°-130°	324.3	8.1
130°-140°	346.4	8.7
140°-150°	323.9	8.1
150°-160°	261.3	6.5
160°-170°	168.6	4.2
170°-180°	58.1	1.5
0°-30°	688.6	17.3
0°-40°	1087.4	27.3
0°-60°	1781.2	44.6
0°-90°	2126.2	53.3
90°-120°	381.2	9.6
90°-150°	1375.8	34.5
90°-180°	1864.0	46.7
0°-180°	3990.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	941	941	941	941	941	
5°	941	937	928	934	933	89
15°	897	889	867	864	858	253
25°	816	797	762	746	738	375
35°	706	679	632	599	585	442
45°	580	546	488	444	426	448
55°	441	404	339	294	279	395
65°	301	259	200	162	154	298
75°	159	123	81	73	72	170
85°	40	24	21	20	20	44
90°	0	5	11	13	14	4
95°	28	9	14	17	17	33
105°	135	140	100	19	20	144
115°	254	257	261	265	267	251
125°	358	362	363	364	365	320
135°	446	448	450	452	450	343
145°	514	517	518	519	519	322
155°	566	566	566	568	566	261
165°	597	596	596	599	596	169
175°	611	609	610	613	609	58
180°	611	611	611	611	611	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	940.6	940.6	940.6	940.6	940.6
2.5°	944.4	941.4	932.2	940.6	939.1
5°	940.6	936.8	927.6	934.5	933.0
7.5°	933.7	929.9	918.5	923.1	920.8
10°	924.6	919.2	905.5	906.3	902.5
12.5°	911.6	905.5	888.0	887.2	882.6
15°	897.1	888.7	867.4	863.6	858.2
17.5°	879.6	870.4	843.7	836.1	828.5
20°	859.7	847.5	818.5	808.6	799.5
22.5°	837.6	823.1	791.8	778.9	770.5
25°	816.3	797.2	762.1	746.1	737.7
27.5°	790.3	769.7	731.6	710.2	697.3
30°	763.6	740.7	698.0	672.1	659.9
32.5°	736.9	710.2	664.5	635.5	622.5
35°	706.4	678.9	631.6	598.8	585.1
37.5°	675.9	646.1	596.6	559.9	543.2
40°	646.9	613.3	559.2	519.5	502.0
42.5°	614.1	580.5	524.1	479.8	464.6
45°	580.5	546.2	487.5	444.0	425.7
47.5°	547.7	509.6	451.6	404.3	388.3
50°	511.1	475.3	413.5	366.2	348.6
52.5°	478.3	438.6	377.6	328.0	312.8
55°	440.9	403.6	338.7	294.5	279.2
57.5°	407.4	366.9	301.3	259.4	246.4
60°	372.3	330.3	267.0	225.8	212.8
62.5°	337.2	295.2	231.9	193.8	180.0
65°	301.3	259.4	199.9	162.5	154.1
67.5°	265.5	222.8	164.8	136.6	127.4
70°	230.4	189.2	135.8	109.1	100.7
72.5°	195.3	154.9	107.6	87.0	84.7
75°	159.4	122.8	80.9	73.2	71.7
77.5°	126.6	93.1	63.3	58.7	57.2
80°	95.4	64.1	48.1	45.8	44.2
82.5°	65.6	39.7	34.3	32.0	32.0
85°	40.4	23.6	21.4	19.8	19.8
87.5°	18.3	9.9	9.9	9.2	8.4
90°	0.5	5.0	10.9	12.7	13.6
92.5°	10.4	7.7	11.8	15.0	15.4
95°	27.7	9.1	14.1	17.3	17.3
97.5°	50.4	37.7	14.5	18.2	18.6
100°	76.8	85.8	15.0	18.6	19.1
102.5°	106.7	112.6	33.6	18.6	19.5
105°	135.4	140.3	99.5	19.1	20.0
107.5°	165.8	169.9	176.7	106.7	47.2
110°	196.2	199.8	204.8	189.9	124.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	225.3	228.5	233.5	237.5	236.6
115°	253.9	256.6	260.7	265.3	267.1
117.5°	282.1	285.2	287.5	291.1	291.6
120°	308.0	312.0	313.4	317.0	317.0
122.5°	334.3	337.5	339.3	341.6	342.0
125°	357.9	361.5	363.4	364.3	365.2
127.5°	381.5	385.2	387.4	388.8	387.9
130°	403.3	407.0	408.8	410.6	409.7
132.5°	424.2	427.9	429.2	431.0	429.7
135°	445.6	448.3	450.1	451.5	450.1
137.5°	463.7	467.4	468.3	470.6	469.6
140°	481.9	484.6	486.0	487.8	486.9
142.5°	498.7	501.4	502.8	504.2	502.8
145°	514.2	517.3	518.2	519.2	519.2
147.5°	529.1	531.4	532.3	533.2	531.0
150°	542.8	544.1	545.0	546.0	544.6
152.5°	555.0	555.5	555.9	557.8	555.5
155°	566.4	565.5	565.9	568.2	565.5
157.5°	575.5	575.5	575.0	577.7	574.1
160°	583.7	583.2	582.7	585.5	582.3
162.5°	591.4	590.0	589.6	592.7	590.0
165°	597.3	595.9	595.5	599.1	595.9
167.5°	602.3	600.5	600.5	604.1	600.5
170°	606.4	604.5	604.5	608.2	604.5
172.5°	609.1	606.8	607.3	610.9	606.8
175°	611.4	609.1	609.5	612.7	609.1
177.5°	612.3	610.0	610.5	614.1	609.5
180°	611.4	611.4	611.4	611.4	611.4

(END OF REPORT)