

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: P1030916

Luminaire Tested: S123DIW-B560D460UB2750-4F0-XX-W2A-D_3000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1030916
REPORT IS A COMBINATION OF REPORTS P991726 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIW-B560D460UB2750-4F0-XX-W2A-D_3000K
Description: Define 3 Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

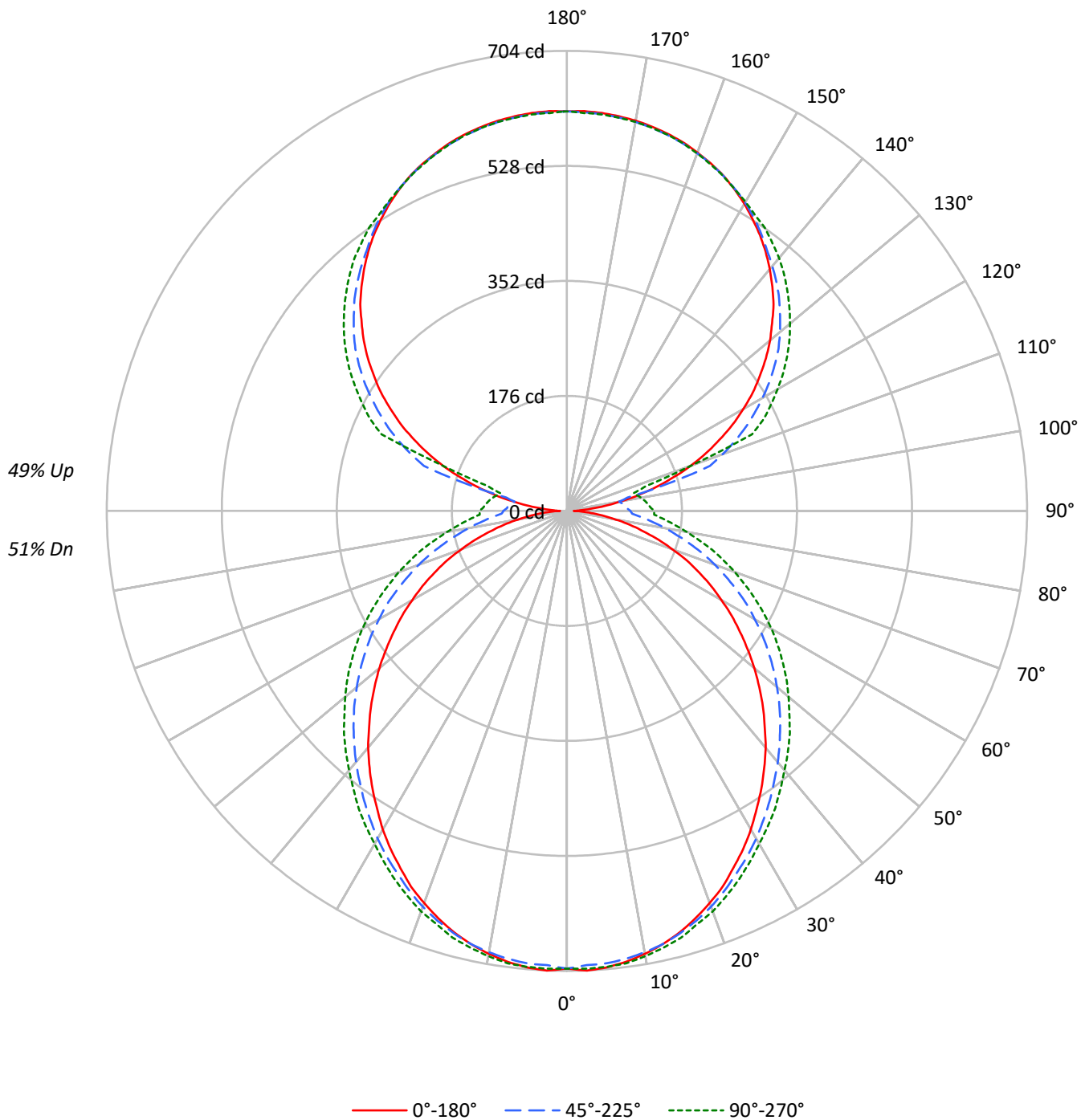
Lumens per Lamp: N/A
Luminaire Lumens: 4219.0 lumens
Efficiency: N/A
Efficacy: 113.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	107	107	107	107	99	99	99	99		84	84	84		70	70	70		57	57	57
1	97	92	88	84	89	85	81	78		72	69	67		60	58	56		49	47	46
2	88	80	73	68	81	74	68	63		62	58	54		52	49	46		42	40	38
3	80	70	62	56	73	65	58	52		55	50	45		46	42	38		37	34	32
4	73	62	53	47	67	57	50	44		48	43	38		40	36	33		33	30	27
5	67	55	46	40	61	51	43	38		43	37	33		36	32	28		30	26	24
6	62	49	41	35	56	46	38	33		39	33	28		33	28	25		27	23	21
7	57	44	36	30	52	41	34	28		35	29	25		30	25	22		24	21	18
8	53	40	32	27	48	37	30	25		32	26	22		27	23	19		22	19	16
9	49	37	29	24	45	34	27	22		29	24	20		25	20	17		21	17	15
10	46	33	26	21	42	31	25	20		27	22	18		23	19	16		19	16	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7539	7539	7539
5°	7560	7318	7312
10°	7489	7120	7065
15°	7390	6901	6804
20°	7249	6657	6523
25°	7077	6382	6232
30°	6899	6133	5940
35°	6700	5873	5702
40°	6511	5634	5451
45°	6300	5403	5243
50°	6091	5174	5018
55°	5862	4940	4812
60°	5637	4699	4600
65°	5405	4444	4351
70°	5056	4156	4096
75°	4614	3828	3832
80°	4099	3498	3531
85°	3592	3230	3314

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6300 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.4	1.6
10°-20°	189.4	4.5
20°-30°	283.3	6.7
30°-40°	338.2	8.0
40°-50°	353.8	8.4
50°-60°	332.1	7.9
60°-70°	277.4	6.6
70°-80°	198.3	4.7
80°-90°	119.2	2.8
90°-100°	95.7	2.3
100°-110°	158.7	3.8
110°-120°	291.8	6.9
120°-130°	345.0	8.2
130°-140°	355.7	8.4
140°-150°	325.9	7.7
150°-160°	261.3	6.2
160°-170°	168.6	4.0
170°-180°	58.1	1.4
0°-30°	539.1	12.8
0°-40°	877.3	20.8
0°-60°	1563.2	37.1
0°-90°	2158.1	51.2
90°-120°	546.3	12.9
90°-150°	1572.9	37.3
90°-180°	2061.0	48.9
0°-180°	4219.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	700	700	700	700	700	
5°	701	700	695	701	700	67
15°	668	670	669	677	676	188
25°	603	610	613	623	623	278
35°	519	531	541	552	556	324
45°	424	442	462	476	482	327
55°	324	349	376	397	403	290
65°	224	253	287	310	317	221
75°	121	157	195	220	230	130
85°	37	76	116	142	150	38
90°	10	52	97	125	133	9
95°	36	47	90	116	124	40
105°	142	165	157	98	106	150
115°	258	270	301	324	332	255
125°	360	364	388	405	411	322
135°	447	449	459	474	477	344
145°	515	517	518	525	528	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°	700.4	700.4	700.4	700.4	700.4
2.5°	704.2	702.0	695.9	702.0	701.2
5°	701.2	699.7	695.1	701.2	700.4
7.5°	695.9	695.9	691.3	698.9	698.1
10°	688.2	689.7	685.9	693.6	692.0
12.5°	679.1	681.4	679.1	685.9	684.4
15°	667.6	669.9	669.1	676.8	676.0
17.5°	653.9	658.5	657.7	664.6	663.0
20°	638.6	643.2	644.7	651.6	652.4
22.5°	622.6	627.2	629.5	638.6	637.9
25°	602.8	610.4	612.7	622.6	622.6
27.5°	583.7	592.1	596.7	605.1	605.8
30°	563.1	573.0	579.1	588.3	588.3
32.5°	540.2	551.6	560.0	570.0	572.2
35°	518.8	531.0	541.0	552.4	555.5
37.5°	495.9	509.7	521.1	534.1	536.4
40°	473.1	486.8	502.1	515.0	518.1
42.5°	447.9	465.4	481.5	495.9	500.5
45°	424.2	442.5	461.6	476.1	482.2
47.5°	399.0	419.6	441.0	457.0	461.6
50°	374.6	396.0	419.6	437.2	442.5
52.5°	348.7	371.6	398.3	416.6	423.5
55°	323.5	348.7	376.2	396.8	402.9
57.5°	299.1	325.0	354.8	375.4	382.3
60°	273.2	300.6	331.9	353.3	361.7
62.5°	248.7	277.0	310.5	331.9	339.5
65°	223.6	253.3	286.9	309.8	317.4
67.5°	198.4	229.7	263.2	288.4	294.5
70°	171.7	204.5	241.1	265.5	273.2
72.5°	147.3	180.1	218.2	243.4	251.0
75°	121.3	157.2	195.3	220.5	229.7
77.5°	99.2	135.1	173.2	199.9	206.8
80°	75.5	112.9	152.6	178.5	186.2
82.5°	54.9	93.1	133.5	159.5	167.1
85°	37.4	75.5	116.0	141.9	149.5
87.5°	22.9	61.0	100.0	125.9	133.5
90°	10.4	52.3	97.1	124.9	133.4
92.5°	19.6	49.7	91.9	120.3	127.6
95°	36.1	47.2	89.6	116.5	124.1
97.5°	58.0	72.8	85.5	112.0	120.1
100°	83.7	117.1	81.4	107.1	115.2
102.5°	112.8	140.1	95.4	101.8	110.3
105°	141.5	164.7	156.7	97.7	105.5
107.5°	171.1	191.3	229.3	179.9	127.3
110°	200.8	218.1	253.6	258.6	199.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	229.9	243.8	277.8	300.8	306.8
115°	257.7	269.6	301.1	324.1	332.0
117.5°	285.9	295.1	323.4	345.3	351.9
120°	311.1	318.9	345.4	366.6	371.9
122.5°	337.4	342.1	367.5	386.6	392.4
125°	360.2	363.8	387.8	404.7	411.0
127.5°	383.8	386.7	408.0	424.7	429.1
130°	405.6	408.5	425.6	441.9	445.6
132.5°	425.7	429.4	442.2	457.7	461.7
135°	447.1	449.1	459.3	474.4	476.8
137.5°	465.2	468.2	474.4	488.9	491.7
140°	482.7	485.4	489.1	502.3	505.2
142.5°	499.5	501.4	502.8	514.1	516.5
145°	515.0	517.3	518.2	525.3	528.4
147.5°	529.1	531.4	532.3	535.5	536.3
150°	542.8	544.1	545.0	546.0	546.1
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)