

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: P1032743

Luminaire Tested: S124DIW-B575D470UB2750-4F0-XX-W2A-D_5000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1032743
REPORT IS A COMBINATION OF REPORTS P997829 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIW-B575D470UB2750-4F0-XX-W2A-D_5000K
Description: Define 4 Direct/Indirect Wall Mount with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

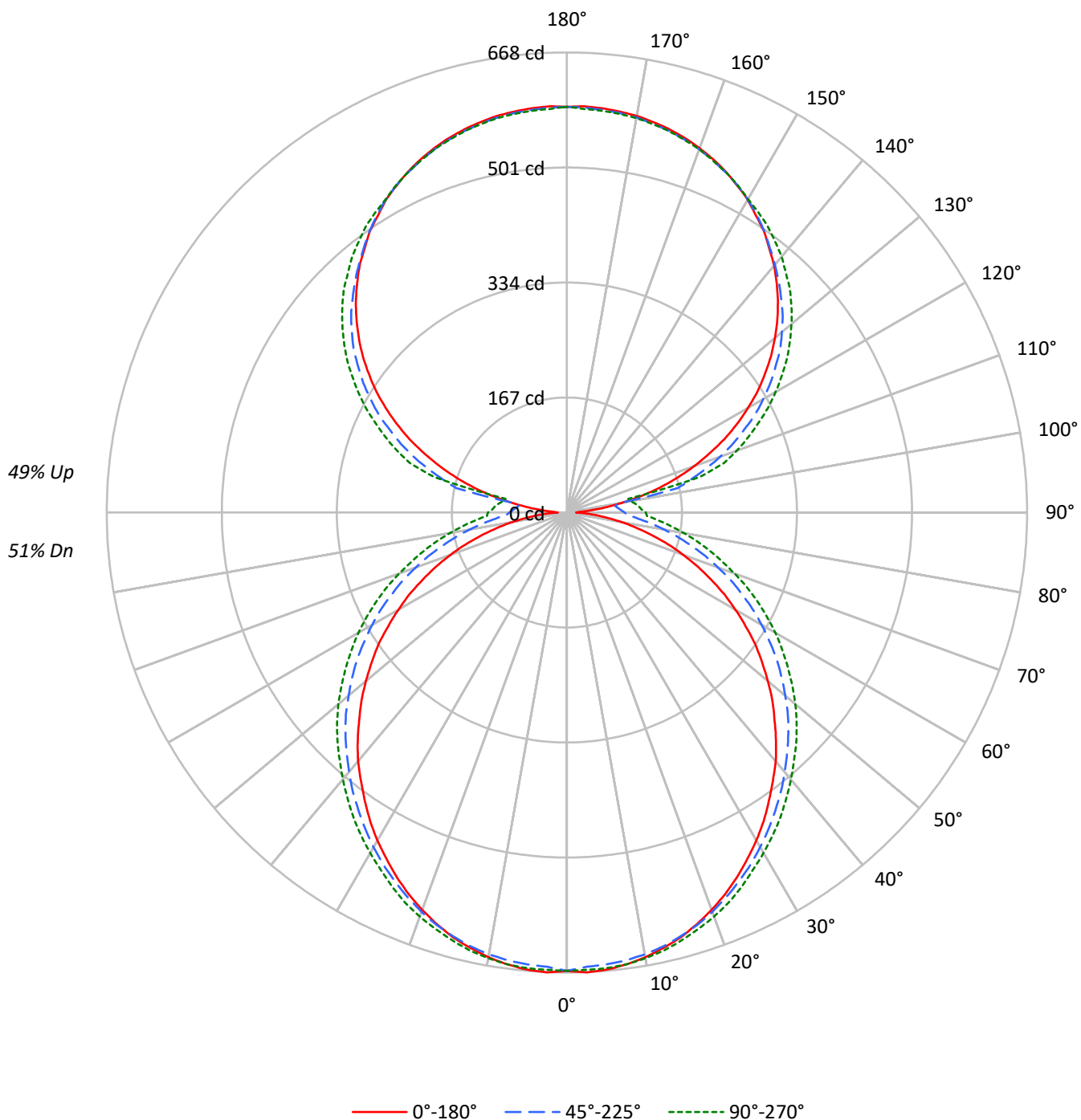
Lumens per Lamp: N/A
Luminaire Lumens: 4093.0 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57	57	57	57
1	97	92	88	84	89	85	82	78	72	69	67	60	58	56	49	48	46	46	46	41
2	88	80	73	68	81	74	68	63	63	58	55	52	49	46	42	40	38	38	38	34
3	80	70	62	56	73	65	58	52	55	50	45	46	42	39	37	34	32	32	32	28
4	73	62	53	47	67	57	50	44	48	43	38	41	36	33	33	30	27	27	27	24
5	67	55	46	40	61	51	43	38	43	37	33	36	32	28	30	26	24	24	24	20
6	61	49	41	35	56	45	38	33	39	33	28	33	28	24	27	23	21	21	21	18
7	57	44	36	30	52	41	34	28	35	29	25	30	25	22	24	21	18	18	18	16
8	53	40	32	27	48	37	30	25	32	26	22	27	22	19	22	19	16	16	16	14
9	49	36	29	24	45	34	27	22	29	24	20	25	20	17	21	17	15	15	15	12
10	46	33	26	21	42	31	24	20	27	21	18	23	19	15	19	16	13	13	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5427	5427	5427
5°	5442	5285	5295
10°	5406	5182	5167
15°	5356	5065	5022
20°	5281	4938	4881
25°	5197	4798	4729
30°	5105	4660	4575
35°	5001	4518	4437
40°	4918	4383	4294
45°	4796	4255	4168
50°	4691	4111	4036
55°	4583	3972	3883
60°	4416	3798	3738
65°	4230	3611	3565
70°	4007	3397	3364
75°	3694	3160	3173
80°	3340	2916	2975
85°	2874	2673	2811

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4796 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.1	1.5
10°-20°	180.7	4.4
20°-30°	273.2	6.7
30°-40°	330.5	8.1
40°-50°	349.4	8.5
50°-60°	328.8	8.0
60°-70°	272.9	6.7
70°-80°	191.5	4.7
80°-90°	109.2	2.7
90°-100°	83.8	2.0
100°-110°	176.4	4.3
110°-120°	277.8	6.8
120°-130°	330.1	8.1
130°-140°	341.7	8.3
140°-150°	313.8	7.7
150°-160°	251.8	6.2
160°-170°	162.4	4.0
170°-180°	56.0	1.4
0°-30°	516.9	12.6
0°-40°	847.4	20.7
0°-60°	1525.6	37.3
0°-90°	2099.1	51.3
90°-120°	538.1	13.1
90°-150°	1523.7	37.2
90°-180°	1994.0	48.7
0°-180°	4093.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	666	666	666	666	666	
5°	666	664	659	665	664	63
15°	639	639	637	644	643	180
25°	584	589	591	599	600	269
35°	511	520	528	538	540	320
45°	426	440	455	467	471	329
55°	334	350	372	387	391	298
65°	231	255	280	299	305	229
75°	128	156	187	208	215	136
85°	40	71	104	127	134	41
90°	13	48	84	108	115	9
95°	34	44	74	97	104	38
105°	139	157	187	209	199	146
115°	252	260	284	301	306	248
125°	351	352	370	385	390	314
135°	433	433	440	453	458	334
145°	499	499	499	504	508	312
155°	546	546	545	547	545	252
165°	576	574	574	577	573	163
175°	589	586	587	591	586	56
180°	589	589	589	589	589	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	665.5	665.5	665.5	665.5	665.5
2.5°	668.5	666.3	660.3	665.5	664.8
5°	666.3	664.0	658.8	664.8	664.0
7.5°	661.8	660.3	655.8	662.5	661.8
10°	655.8	655.1	651.4	658.1	657.3
12.5°	647.6	647.6	645.4	651.4	651.4
15°	638.7	639.4	637.2	643.9	643.2
17.5°	626.8	629.0	628.2	635.0	634.2
20°	614.1	616.3	617.1	624.5	624.5
22.5°	599.9	602.9	604.4	611.9	613.3
25°	584.3	588.7	591.0	599.2	599.9
27.5°	567.1	573.8	576.8	584.3	585.0
30°	550.0	556.0	561.2	569.4	570.9
32.5°	531.4	538.8	544.8	554.5	556.0
35°	511.2	520.2	527.6	538.1	540.3
37.5°	491.1	501.6	510.5	520.9	523.2
40°	471.7	481.4	491.9	503.0	506.0
42.5°	449.4	460.6	473.2	485.9	488.1
45°	426.3	440.4	454.6	467.3	471.0
47.5°	404.7	418.8	435.2	447.9	452.4
50°	380.8	397.2	413.6	428.5	433.0
52.5°	357.0	373.4	392.7	407.7	412.1
55°	333.9	349.5	371.9	386.8	391.3
57.5°	307.8	327.2	348.8	366.7	370.4
60°	282.5	301.8	326.4	343.6	349.5
62.5°	257.9	279.5	304.1	321.2	327.2
65°	231.0	254.9	280.2	298.8	304.8
67.5°	205.7	231.0	257.9	276.5	282.5
70°	179.6	204.9	233.3	253.4	258.6
72.5°	154.3	180.4	210.9	230.3	236.2
75°	128.2	155.8	187.1	207.9	214.6
77.5°	103.6	132.7	165.4	186.3	193.8
80°	81.2	111.0	143.8	166.2	172.2
82.5°	58.9	90.2	123.0	146.1	152.8
85°	39.5	70.8	104.3	126.7	134.1
87.5°	24.6	55.1	87.9	109.6	116.3
90°	13.2	47.9	83.5	107.7	114.6
92.5°	17.8	43.0	78.6	102.1	108.0
95°	33.9	43.6	74.5	97.3	104.5
97.5°	55.2	86.6	70.8	92.4	99.5
100°	80.5	107.8	76.0	88.7	94.3
102.5°	109.5	131.2	164.8	85.1	91.1
105°	139.3	156.9	186.7	209.2	199.4
107.5°	168.0	182.0	211.2	232.0	238.9
110°	196.3	208.1	236.8	254.8	262.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	223.7	235.4	260.9	276.7	284.5
115°	252.1	260.1	283.5	300.8	306.0
117.5°	278.1	284.3	308.0	323.2	329.1
120°	303.7	307.8	329.0	344.7	349.8
122.5°	328.4	329.3	350.3	365.7	370.0
125°	351.1	352.0	369.8	385.3	390.2
127.5°	373.5	373.2	390.3	403.3	408.1
130°	394.3	394.1	407.3	421.1	425.6
132.5°	414.2	414.3	425.0	438.1	442.2
135°	433.3	432.8	439.8	452.6	458.0
137.5°	450.9	450.1	455.3	467.4	470.6
140°	468.1	468.2	469.8	480.9	485.0
142.5°	482.7	484.5	484.2	493.3	496.3
145°	498.6	499.2	499.2	504.1	508.0
147.5°	510.9	512.8	512.4	513.5	517.0
150°	524.6	525.6	525.2	525.2	525.6
152.5°	535.3	536.6	535.8	536.6	536.2
155°	545.9	546.3	545.0	546.8	545.4
157.5°	555.1	555.1	553.4	555.6	553.4
160°	563.1	561.8	561.3	564.0	561.3
162.5°	570.1	568.4	567.9	570.6	567.5
165°	575.9	573.6	573.6	577.2	573.2
167.5°	580.7	578.5	578.1	582.0	577.6
170°	584.7	582.0	582.5	586.0	581.6
172.5°	587.3	584.7	585.1	588.6	583.8
175°	589.1	586.4	586.9	590.8	585.5
177.5°	590.4	587.3	588.2	591.7	586.4
180°	589.1	589.1	589.1	589.1	589.1

(END OF REPORT)