

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: P1029371

Luminaire Tested: S122DIW-B290D435UB2750-4F0-XX-W2A-D1_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029371
REPORT IS A COMBINATION OF REPORTS P985672 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIW-B290D435UB2750-4F0-XX-W2A-D1_2700K
Description: Define 2 Direct/Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

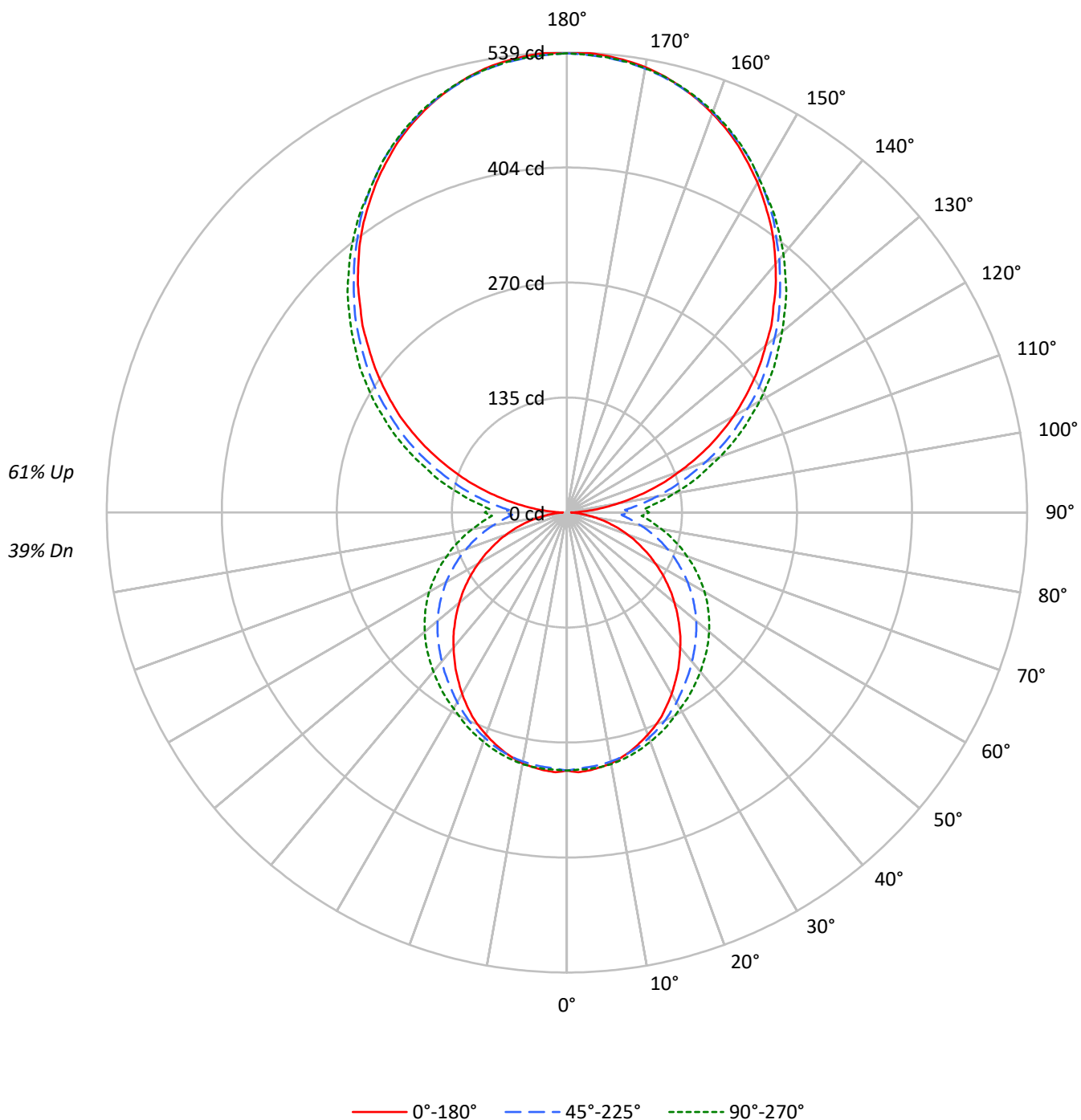
Lumens per Lamp: N/A
Luminaire Lumens: 2660.0 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 26.2
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	104	104	104	104	95	95	95	95	77	77	77	61	61	61	46	46	46
1	94	89	85	81	85	81	77	74	66	63	61	52	50	48	38	37	36
2	85	77	71	65	77	70	65	60	57	53	49	45	42	39	33	31	30
3	77	68	60	54	70	61	55	49	50	45	41	39	36	33	29	27	25
4	71	59	51	45	64	54	47	42	44	39	34	34	31	28	26	23	21
5	65	53	44	38	58	48	41	35	39	34	29	31	27	24	23	20	18
6	59	47	39	33	54	43	36	30	35	30	25	28	24	21	21	18	16
7	55	42	34	29	49	39	32	26	32	26	22	25	21	18	19	16	14
8	51	38	31	25	46	35	28	23	29	23	20	23	19	16	17	14	12
9	47	35	27	22	43	32	25	21	26	21	17	21	17	14	16	13	11
10	44	32	25	20	40	29	23	18	24	19	16	19	15	13	15	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4787	4787	4787
5°	4809	4584	4558
10°	4777	4424	4360
15°	4709	4261	4158
20°	4624	4088	3965
25°	4541	3923	3791
30°	4423	3755	3618
35°	4303	3593	3491
40°	4177	3453	3366
45°	4058	3326	3256
50°	3931	3210	3147
55°	3797	3085	3037
60°	3632	2956	2921
65°	3459	2806	2787
70°	3265	2648	2645
75°	3015	2488	2509
80°	2627	2322	2367
85°	2232	2165	2248

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 4058 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.7	1.1
10°-20°	82.2	3.1
20°-30°	124.6	4.7
30°-40°	151.7	5.7
40°-50°	163.2	6.1
50°-60°	158.5	6.0
60°-70°	138.4	5.2
70°-80°	106.6	4.0
80°-90°	72.9	2.7
90°-100°	82.5	3.1
100°-110°	141.8	5.3
110°-120°	204.8	7.7
120°-130°	251.4	9.5
130°-140°	272.8	10.3
140°-150°	263.1	9.9
150°-160°	219.9	8.3
160°-170°	145.8	5.5
170°-180°	51.0	1.9
0°-30°	235.5	8.9
0°-40°	387.2	14.6
0°-60°	709.0	26.7
0°-90°	1026.9	38.6
90°-120°	429.1	16.1
90°-150°	1216.4	45.7
90°-180°	1633.0	61.4
0°-180°	2660.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	302	302	302	302	302	
5°	303	302	299	302	302	29
15°	289	290	290	294	294	81
25°	263	266	270	275	277	121
35°	227	234	242	252	255	142
45°	186	198	213	227	231	143
55°	142	158	181	197	202	127
65°	97	119	145	163	168	97
75°	54	78	106	125	131	57
85°	16	43	71	89	96	17
90°	5	36	74	90	96	5
95°	27	52	80	96	100	29
105°	100	114	138	154	159	106
115°	183	191	210	222	226	181
125°	265	269	282	292	296	237
135°	342	347	353	361	364	265
145°	415	418	421	424	424	259
155°	474	476	477	480	478	218
165°	516	516	516	519	517	146
175°	537	536	535	538	535	51
180°	538	538	538	538	538	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	302.4	302.4	302.4	302.4	302.4
2.5°	304.6	303.3	300.2	302.4	301.6
5°	303.3	302.0	299.4	302.0	301.6
7.5°	301.1	300.2	298.1	301.1	300.7
10°	298.5	297.6	296.3	299.8	299.4
12.5°	294.1	294.5	293.7	297.2	296.7
15°	289.3	290.2	290.2	294.1	293.7
17.5°	283.2	284.9	286.2	290.2	290.2
20°	277.0	279.2	281.0	285.8	285.8
22.5°	270.4	273.1	275.7	280.5	281.4
25°	263.0	266.1	270.0	275.3	276.6
27.5°	254.2	259.0	263.4	270.0	270.9
30°	245.5	251.2	256.9	263.9	265.2
32.5°	235.8	242.4	249.4	257.7	260.4
35°	226.6	234.1	242.4	252.0	255.1
37.5°	216.5	224.9	235.4	245.9	249.0
40°	206.4	216.1	227.9	239.3	243.3
42.5°	196.8	206.4	220.5	233.2	237.1
45°	185.8	197.7	213.0	226.6	231.0
47.5°	175.3	188.0	205.6	219.6	224.4
50°	164.4	178.0	197.7	212.6	217.4
52.5°	153.8	168.3	189.4	204.7	210.0
55°	142.5	158.2	181.0	196.8	202.5
57.5°	131.5	149.0	171.8	188.9	194.6
60°	119.7	138.5	163.5	180.1	186.3
62.5°	109.1	128.9	153.8	171.8	177.5
65°	97.3	118.8	144.6	162.6	168.3
67.5°	86.8	109.1	135.4	153.4	159.5
70°	75.4	98.2	125.4	144.2	149.5
72.5°	64.9	88.5	116.2	134.6	141.1
75°	53.9	78.5	106.5	125.4	131.1
77.5°	43.4	68.8	97.3	116.2	122.3
80°	32.9	59.6	88.1	106.5	112.6
82.5°	24.1	50.4	79.3	97.7	103.4
85°	15.8	43.0	71.0	89.4	95.6
87.5°	9.6	35.9	64.0	82.0	87.7
90°	4.9	35.7	73.8	90.4	96.1
92.5°	13.9	40.8	68.0	85.5	90.8
95°	27.1	52.3	79.5	96.2	100.5
97.5°	42.6	65.5	92.7	109.0	114.2
100°	60.8	80.6	106.5	122.7	127.1
102.5°	79.3	96.6	122.1	138.2	142.7
105°	99.8	113.9	137.6	153.8	158.7
107.5°	120.7	133.0	154.9	170.3	172.9
110°	140.3	151.7	173.2	187.2	190.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	162.1	171.8	191.5	204.2	208.1
115°	183.4	191.0	209.8	222.4	225.9
117.5°	204.3	211.4	227.5	239.4	242.4
120°	225.6	231.1	244.9	257.2	260.7
122.5°	245.2	250.2	264.1	274.6	277.7
125°	265.2	269.3	281.9	292.4	295.9
127.5°	285.2	289.7	299.7	308.8	311.5
130°	303.8	309.2	317.5	327.2	328.9
132.5°	324.7	328.7	335.8	343.6	345.7
135°	342.3	347.3	352.6	361.4	363.5
137.5°	362.3	366.4	369.5	377.5	378.6
140°	380.0	383.7	386.9	393.9	394.7
142.5°	398.2	401.9	403.2	409.0	409.4
145°	415.1	418.2	421.0	424.0	424.4
147.5°	430.5	434.6	436.4	437.7	437.3
150°	446.4	449.1	450.9	452.3	450.9
152.5°	460.5	463.2	465.5	467.3	465.5
155°	474.5	475.9	477.3	479.5	478.2
157.5°	486.8	487.7	488.6	491.8	489.5
160°	497.7	498.6	499.1	501.8	500.0
162.5°	507.7	507.7	508.1	511.3	509.1
165°	516.3	515.9	515.9	519.0	516.8
167.5°	524.0	522.7	522.7	525.9	523.6
170°	529.9	528.6	528.1	531.3	528.6
172.5°	534.0	532.7	532.2	535.4	532.7
175°	537.2	535.8	534.9	538.1	535.4
177.5°	539.0	537.7	536.8	539.5	536.8
180°	538.1	538.1	538.1	538.1	538.1

(END OF REPORT)