

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: P1029668

Luminaire Tested: S122DIW-B675D435UB2750-4F0-XX-W2A-D1_4000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029668
REPORT IS A COMBINATION OF REPORTS P986575 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIW-B675D435UB2750-4F0-XX-W2A-D1_4000K
Description: Define 2 Direct/Indirect Wall Mount with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

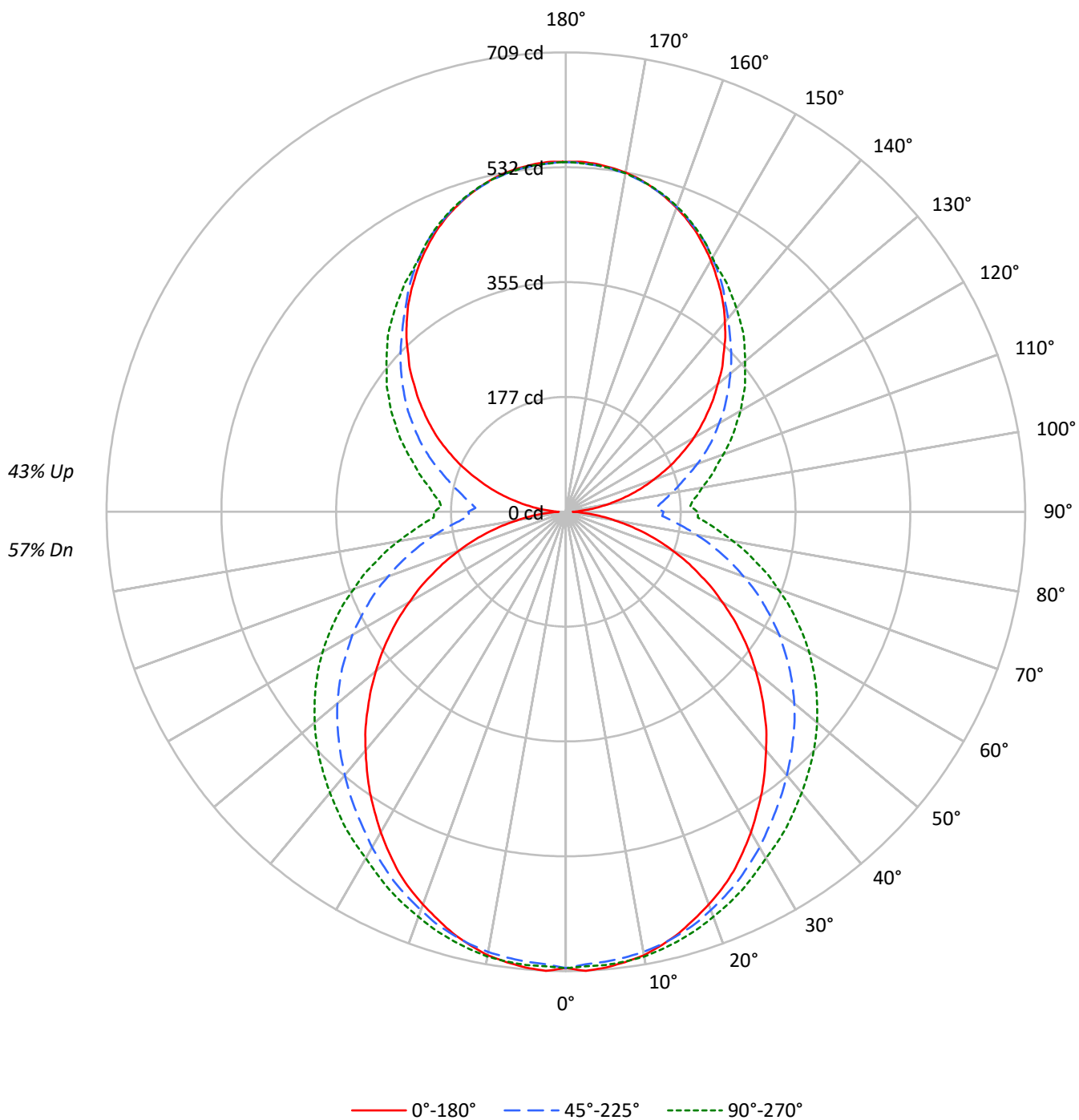
Lumens per Lamp: N/A
Luminaire Lumens: 4198.0 lumens
Efficiency: N/A
Efficacy: 85.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 49.1
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					0
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	98	93	88	84		90	86	82	78		74	71	68		63	61	58		53	51	49
2	88	80	73	67		82	74	68	63		64	59	55		54	51	47		45	43	40
3	80	70	62	55		74	65	58	52		56	50	46		47	43	39		40	36	34
4	73	61	53	46		67	57	49	44		49	43	38		42	37	33		35	31	28
5	67	54	46	39		62	51	43	37		44	38	33		37	32	29		31	28	24
6	62	49	40	34		57	45	38	32		39	33	28		34	29	25		28	24	21
7	57	44	35	30		53	41	33	28		36	29	25		31	26	22		26	22	19
8	53	40	32	26		49	37	30	25		32	26	22		28	23	19		24	20	17
9	49	36	28	23		45	34	27	22		30	24	20		26	21	17		22	18	15
10	46	33	26	21		43	31	24	20		27	22	18		24	19	16		20	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11147	11147	11147
5°	11197	10672	10612
10°	11122	10301	10152
15°	10965	9919	9680
20°	10767	9518	9232
25°	10573	9134	8827
30°	10297	8743	8425
35°	10020	8366	8130
40°	9729	8041	7836
45°	9450	7745	7580
50°	9152	7473	7328
55°	8839	7184	7072
60°	8454	6883	6801
65°	8055	6537	6491
70°	7600	6165	6156
75°	7021	5793	5842
80°	6108	5405	5514
85°	5184	5040	5232

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9450 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.8	1.6
10°-20°	191.5	4.6
20°-30°	290.1	6.9
30°-40°	353.3	8.4
40°-50°	380.1	9.1
50°-60°	369.1	8.8
60°-70°	322.4	7.7
70°-80°	248.1	5.9
80°-90°	167.7	4.0
90°-100°	148.0	3.5
100°-110°	189.9	4.5
110°-120°	237.0	5.6
120°-130°	269.7	6.4
130°-140°	281.1	6.7
140°-150°	265.2	6.3
150°-160°	220.6	5.3
160°-170°	146.3	3.5
170°-180°	51.1	1.2
0°-30°	548.3	13.1
0°-40°	901.6	21.5
0°-60°	1650.8	39.3
0°-90°	2389.0	56.9
90°-120°	574.9	13.7
90°-150°	1390.9	33.1
90°-180°	1809.0	43.1
0°-180°	4198.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	704	704	704	704	704	
5°	706	703	697	703	702	67
15°	674	676	676	685	684	190
25°	612	620	629	641	644	282
35°	528	545	564	587	594	330
45°	433	460	496	528	538	334
55°	332	368	422	458	472	297
65°	227	277	337	379	392	225
75°	126	183	248	292	305	133
85°	37	100	165	208	222	39
90°	11	75	151	190	203	9
95°	32	84	147	185	197	33
105°	103	134	188	225	236	109
115°	186	200	245	276	285	184
125°	267	271	303	329	338	239
135°	344	349	360	381	388	266
145°	416	420	422	429	432	260
155°	476	478	479	481	480	219
165°	518	518	518	521	518	146
175°	539	538	537	540	537	51
180°	540	540	540	540	540	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	704.2	704.2	704.2	704.2	704.2
2.5°	709.3	706.2	699.1	704.2	702.2
5°	706.2	703.2	697.1	703.2	702.2
7.5°	701.1	699.1	694.0	701.1	700.1
10°	695.0	693.0	689.9	698.1	697.1
12.5°	684.8	685.8	683.8	692.0	690.9
15°	673.6	675.6	675.6	684.8	683.8
17.5°	659.3	663.4	666.4	675.6	675.6
20°	645.0	650.1	654.2	665.4	665.4
22.5°	629.7	635.8	641.9	653.2	655.2
25°	612.4	619.5	628.7	640.9	644.0
27.5°	591.9	603.2	613.4	628.7	630.7
30°	571.5	584.8	598.1	614.4	617.5
32.5°	549.1	564.4	580.7	600.1	606.2
35°	527.6	545.0	564.4	586.8	594.0
37.5°	504.2	523.6	548.1	572.5	579.7
40°	480.7	503.1	530.7	557.2	566.4
42.5°	458.2	480.7	513.4	543.0	552.1
45°	432.7	460.3	496.0	527.6	537.8
47.5°	408.2	437.8	478.7	511.3	522.5
50°	382.7	414.4	460.3	495.0	506.2
52.5°	358.2	391.9	440.9	476.6	488.9
55°	331.7	368.4	421.5	458.2	471.5
57.5°	306.2	347.0	400.1	439.9	453.1
60°	278.6	322.5	380.7	419.5	433.7
62.5°	254.1	300.1	358.2	400.1	413.3
65°	226.6	276.6	336.8	378.6	391.9
67.5°	202.1	254.1	315.4	357.2	371.5
70°	175.5	228.6	291.9	335.8	348.0
72.5°	151.0	206.2	270.5	313.3	328.6
75°	125.5	182.7	248.0	291.9	305.2
77.5°	101.0	160.2	226.6	270.5	284.7
80°	76.5	138.8	205.1	248.0	262.3
82.5°	56.1	117.4	184.7	227.6	240.9
85°	36.7	100.0	165.3	208.2	222.5
87.5°	22.5	83.7	149.0	190.8	204.1
90°	10.7	75.3	150.6	190.5	203.3
92.5°	19.2	77.0	139.6	179.9	192.2
95°	31.9	84.3	146.6	185.3	196.6
97.5°	46.7	94.7	155.8	193.6	205.8
100°	65.0	106.4	165.0	202.7	213.4
102.5°	83.1	119.5	176.5	213.7	224.5
105°	103.1	134.0	188.0	224.6	235.8
107.5°	124.0	150.3	201.3	236.5	245.5
110°	143.1	166.2	216.2	248.9	258.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	164.9	184.0	230.5	261.7	272.0
115°	186.3	200.3	245.3	275.5	285.3
117.5°	206.8	218.5	259.1	288.4	297.2
120°	228.2	235.8	273.1	301.6	311.5
122.5°	247.8	253.3	288.7	315.0	323.3
125°	267.2	271.3	302.6	328.8	337.5
127.5°	287.2	291.2	317.0	340.7	348.5
130°	305.9	310.8	331.4	354.9	361.3
132.5°	326.9	330.4	346.2	367.4	374.2
135°	344.1	349.1	360.2	381.2	388.0
137.5°	364.1	368.2	374.2	393.2	398.6
140°	381.9	385.0	389.3	405.7	409.9
142.5°	400.1	403.2	404.6	417.2	420.5
145°	416.4	419.6	422.4	428.9	432.2
147.5°	431.9	436.0	437.8	439.8	441.0
150°	447.9	450.6	452.4	453.8	452.4
152.5°	462.0	464.7	467.0	468.8	467.0
155°	476.1	477.5	478.8	481.1	479.8
157.5°	488.4	489.3	490.2	493.4	491.2
160°	499.4	500.3	500.7	503.5	501.6
162.5°	509.4	509.4	509.8	513.0	510.7
165°	518.0	517.6	517.6	520.8	518.5
167.5°	525.8	524.4	524.4	527.6	525.3
170°	531.7	530.3	529.9	533.1	530.3
172.5°	535.8	534.4	534.0	537.2	534.4
175°	539.0	537.6	536.7	539.9	537.2
177.5°	540.8	539.4	538.5	541.3	538.5
180°	539.9	539.9	539.9	539.9	539.9

(END OF REPORT)