

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: P1029236

Luminaire Tested: S122DIW-B1005D435UB2750-4F0-XX-W2A-F1_3500K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029236
REPORT IS A COMBINATION OF REPORTS P985239 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIW-B1005D435UB2750-4F0-XX-W2A-F1_3500K
Description: Define 2 Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

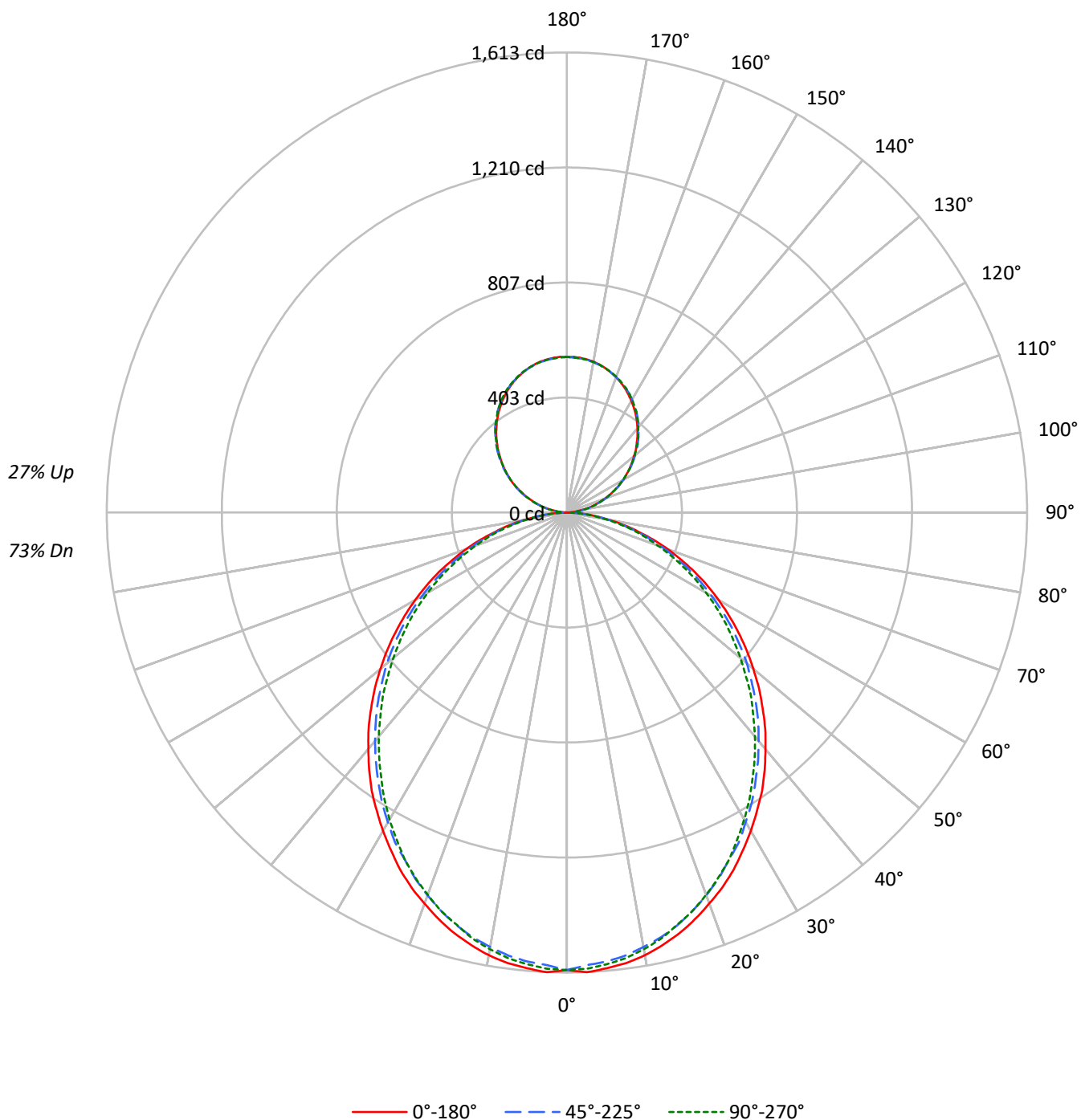
Lumens per Lamp: N/A
Luminaire Lumens: 5607.0 lumens
Efficiency: N/A
Efficacy: 75.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 74.5
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	113	113	113	113	107	107	107	107	96	96	96	86	86	86	77	77	77	73		
1	103	98	94	91	97	94	90	87	84	82	79	76	74	72	68	67	65	61		
2	94	86	80	74	89	82	76	71	74	69	66	67	63	60	60	57	55	51		
3	86	76	68	62	81	72	65	60	65	60	55	59	55	51	53	50	47	44		
4	78	67	59	53	74	64	57	51	58	52	47	53	48	44	48	44	40	37		
5	72	60	51	45	68	57	50	44	52	46	41	47	42	38	43	39	35	32		
6	67	54	45	39	63	52	44	38	47	41	36	43	38	33	39	35	31	29		
7	62	49	41	35	58	47	39	34	43	36	32	39	34	30	36	31	28	25		
8	57	44	36	31	54	43	35	30	39	33	28	36	30	27	33	28	25	23		
9	53	41	33	28	51	39	32	27	36	30	25	33	28	24	30	26	22	20		
10	50	38	30	25	48	36	29	24	33	27	23	31	25	22	28	24	20	19		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	25392	25392	25392
5°	25433	24202	24031
10°	25225	23099	22641
15°	24856	21987	21179
20°	24357	20779	19795
25°	23859	19517	18413
30°	23232	18330	16963
35°	22644	17079	15537
40°	21913	15843	14190
45°	21189	14619	12870
50°	20396	13372	11499
55°	19564	12039	10202
60°	18629	10597	8852
65°	17601	9129	7433
70°	16296	7525	6002
75°	14494	5800	4636
80°	12311	3942	2983
85°	8927	1836	1270

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 21189 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.0	2.7
10°-20°	424.8	7.6
20°-30°	624.2	11.1
30°-40°	725.0	12.9
40°-50°	724.1	12.9
50°-60°	631.4	11.3
60°-70°	466.7	8.3
70°-80°	264.1	4.7
80°-90°	71.2	1.3
90°-100°	33.7	0.6
100°-110°	107.2	1.9
110°-120°	183.5	3.3
120°-130°	241.3	4.3
130°-140°	270.9	4.8
140°-150°	265.6	4.7
150°-160°	222.8	4.0
160°-170°	147.8	2.6
170°-180°	51.6	0.9
0°-30°	1200.0	21.4
0°-40°	1925.0	34.3
0°-60°	3280.5	58.5
0°-90°	4082.5	72.8
90°-120°	324.4	5.8
90°-150°	1102.2	19.7
90°-180°	1524.0	27.2
0°-180°	5607.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1604	1604	1604	1604	1604	
5°	1604	1598	1581	1593	1590	152
15°	1527	1518	1498	1504	1496	430
25°	1382	1370	1343	1346	1343	636
35°	1192	1177	1152	1143	1135	745
45°	970	959	936	919	913	749
55°	734	725	706	688	680	656
65°	495	486	470	456	449	490
75°	259	256	248	239	242	277
85°	63	62	60	56	54	70
90°	0	6	16	15	16	5
95°	24	28	29	29	28	27
105°	99	100	101	102	102	104
115°	184	187	186	185	184	182
125°	268	272	271	269	269	239
135°	346	352	352	352	351	268
145°	421	424	426	427	425	263
155°	481	482	484	486	484	221
165°	523	523	523	526	524	148
175°	544	543	542	545	542	52
180°	545	545	545	545	545	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1604.1	1604.1	1604.1	1604.1	1604.1
2.5°	1613.3	1605.6	1588.6	1604.1	1601.0
5°	1604.1	1597.9	1580.9	1593.3	1590.2
7.5°	1593.3	1584.0	1567.0	1579.4	1576.3
10°	1576.3	1565.5	1547.0	1559.3	1554.7
12.5°	1553.2	1543.9	1525.4	1533.1	1530.0
15°	1526.9	1517.7	1497.6	1503.8	1496.1
17.5°	1494.6	1485.3	1465.3	1473.0	1465.3
20°	1459.1	1449.8	1428.2	1432.9	1426.7
22.5°	1423.6	1409.7	1389.7	1389.7	1386.6
25°	1382.0	1369.6	1343.4	1346.5	1343.4
27.5°	1335.7	1324.9	1304.8	1300.2	1292.5
30°	1289.4	1277.1	1253.9	1249.3	1243.2
32.5°	1240.1	1230.8	1206.1	1196.9	1190.7
35°	1192.3	1176.8	1152.2	1142.9	1135.2
37.5°	1138.3	1124.4	1099.7	1088.9	1081.2
40°	1082.7	1070.4	1045.7	1031.8	1025.7
42.5°	1028.8	1016.4	991.7	976.3	967.1
45°	970.2	959.4	936.2	919.3	913.1
47.5°	913.1	902.3	877.6	860.6	851.4
50°	852.9	845.2	823.6	802.0	794.3
52.5°	794.3	783.5	763.5	746.5	735.7
55°	734.2	724.9	706.4	687.9	680.2
57.5°	674.0	666.3	646.3	627.7	621.6
60°	613.9	607.7	586.1	569.1	564.5
62.5°	555.3	544.5	529.0	513.6	507.4
65°	495.1	485.8	470.4	456.5	448.8
67.5°	433.4	425.7	411.8	401.0	394.8
70°	376.3	370.2	356.3	345.5	339.3
72.5°	317.7	311.6	303.8	293.1	288.4
75°	259.1	256.0	248.3	239.1	242.2
77.5°	206.7	200.5	197.4	192.8	188.2
80°	154.2	152.7	149.6	145.0	141.9
82.5°	104.9	104.9	103.3	97.2	97.2
85°	63.2	61.7	60.2	55.5	54.0
87.5°	27.8	24.7	21.6	17.0	15.4
90°	0.5	6.0	16.1	15.2	15.6
92.5°	10.1	13.8	14.3	14.7	14.7
95°	23.9	28.5	29.4	29.4	28.5
97.5°	40.0	44.2	46.0	46.0	46.0
100°	58.4	62.1	63.5	63.5	63.0
102.5°	77.8	80.5	82.4	82.8	82.4
105°	98.9	100.3	101.2	102.2	102.2
107.5°	120.1	121.9	121.9	122.4	120.1
110°	140.3	143.1	143.1	143.1	141.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	162.4	165.2	164.7	163.3	162.4
115°	184.1	186.8	185.9	185.4	184.1
117.5°	205.7	209.4	207.1	205.7	204.3
120°	227.3	231.0	227.3	227.3	225.9
122.5°	247.1	251.7	249.4	248.0	247.1
125°	267.8	271.9	270.6	269.2	268.7
127.5°	288.0	293.1	291.3	289.4	288.0
130°	306.9	312.9	312.0	311.1	309.2
132.5°	328.1	332.7	333.1	330.8	329.5
135°	346.5	351.5	352.5	352.0	350.6
137.5°	366.7	370.9	371.8	371.3	369.5
140°	384.7	388.8	391.1	391.1	389.3
142.5°	403.1	407.2	408.6	409.1	407.2
145°	420.6	423.8	426.5	427.0	425.2
147.5°	436.2	440.4	442.2	443.1	441.3
150°	452.3	455.1	456.9	458.3	456.9
152.5°	466.6	469.3	471.6	473.5	471.6
155°	480.8	482.2	483.6	485.9	484.5
157.5°	493.3	494.2	495.1	498.3	496.0
160°	504.3	505.2	505.7	508.5	506.6
162.5°	514.4	514.4	514.9	518.1	515.8
165°	523.2	522.7	522.7	525.9	523.6
167.5°	531.0	529.6	529.6	532.8	530.5
170°	537.0	535.6	535.1	538.4	535.6
172.5°	541.1	539.7	539.3	542.5	539.7
175°	544.3	543.0	542.0	545.3	542.5
177.5°	546.2	544.8	543.9	546.6	543.9
180°	545.3	545.3	545.3	545.3	545.3

(END OF REPORT)