

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: P1029241

Luminaire Tested: S122DIW-B1005D435UB2750-4F0-XX-W2A-F_3500K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029241
REPORT IS A COMBINATION OF REPORTS P985249 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-F_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

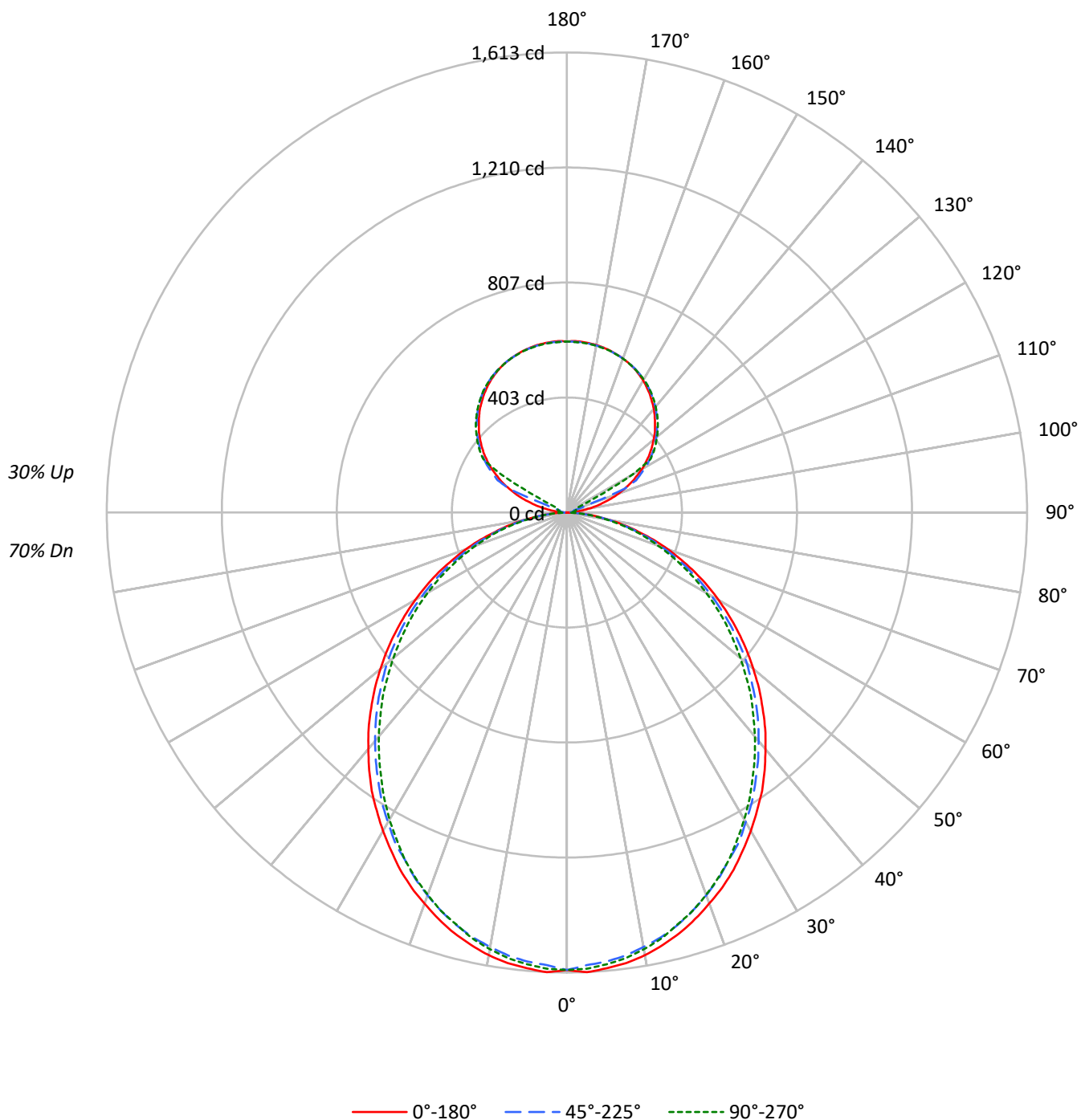
Lumens per Lamp: N/A
Luminaire Lumens: 5840.0 lumens
Efficiency: N/A
Efficacy: 78.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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
RCR																	
0	112	112	112	112	106	106	106	106	94	94	94	84	84	84	74	74	74
1	102	98	94	90	97	93	89	86	83	80	78	74	72	70	66	64	63
2	93	85	79	74	88	81	75	71	73	68	64	65	62	59	58	55	53
3	85	75	68	62	80	71	65	59	64	59	54	58	53	50	51	48	45
4	78	67	58	52	73	63	56	50	57	51	46	51	46	43	46	42	39
5	72	60	51	45	67	57	49	43	51	45	40	46	41	37	41	37	34
6	66	54	45	39	62	51	43	38	46	40	35	42	37	33	38	33	30
7	61	48	40	34	58	46	39	33	42	36	31	38	33	29	34	30	27
8	57	44	36	31	54	42	35	30	38	32	28	35	30	26	32	27	24
9	53	40	33	27	50	39	31	27	35	29	25	32	27	23	29	25	22
10	50	37	30	25	47	36	29	24	33	27	23	30	25	21	27	23	20

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	2.6
10°-20°	424.8	7.3
20°-30°	624.2	10.7
30°-40°	725.0	12.4
40°-50°	724.1	12.4
50°-60°	631.4	10.8
60°-70°	466.7	8.0
70°-80°	264.1	4.5
80°-90°	70.7	1.2
90°-100°	19.8	0.3
100°-110°	73.7	1.3
110°-120°	195.5	3.3
120°-130°	324.2	5.6
130°-140°	344.4	5.9
140°-150°	320.1	5.5
150°-160°	257.3	4.4
160°-170°	165.8	2.8
170°-180°	57.1	1.0
0°-30°	1200.0	20.5
0°-40°	1925.0	33.0
0°-60°	3280.5	56.2
0°-90°	4082.0	69.9
90°-120°	289.0	4.9
90°-150°	1277.7	21.9
90°-180°	1758.0	30.1
0°-180°	5840.0	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	5	9	11	12	5
95°	28	14	17	19	19	33
105°	132	145	26	31	33	141
115°	250	257	268	67	36	246
125°	353	358	367	370	371	315
135°	436	443	447	452	451	337
145°	506	506	513	516	514	317
155°	558	554	559	562	558	257
165°	588	585	586	589	586	166
175°	601	598	599	602	598	57
180°	600	600	600	600	600	

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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°	0.4	5.2	8.7	10.8	11.7
92.5°	10.8	9.1	10.4	11.3	11.7
95°	28.2	13.9	16.9	19.1	18.7
97.5°	50.8	15.2	22.1	23.4	23.9
100°	76.8	17.4	24.7	28.2	29.1
102.5°	105.4	104.6	25.6	30.4	31.7
105°	131.9	144.9	26.5	31.2	33.0
107.5°	162.7	173.6	27.3	32.1	33.8
110°	192.2	201.3	75.9	32.5	34.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	220.0	227.8	220.4	33.4	34.7
115°	249.5	256.9	267.7	66.8	35.6
117.5°	275.1	283.8	291.1	229.1	115.4
120°	303.7	310.2	318.0	323.3	264.7
122.5°	328.0	335.0	343.6	346.2	346.7
125°	352.8	358.4	366.6	369.7	371.0
127.5°	375.3	381.4	387.9	392.2	392.7
130°	396.6	403.5	408.3	413.1	412.6
132.5°	418.3	423.9	428.7	432.6	432.2
135°	436.5	443.4	447.3	451.7	450.8
137.5°	455.6	460.8	465.1	469.5	468.2
140°	474.2	477.7	482.5	486.4	484.2
142.5°	489.9	492.9	498.5	502.0	499.8
145°	506.4	505.9	513.3	516.3	514.2
147.5°	520.7	519.4	526.7	528.9	527.2
150°	534.6	531.5	538.5	541.1	538.9
152.5°	546.3	542.8	549.3	551.9	548.9
155°	557.6	553.7	558.9	561.5	558.0
157.5°	566.7	563.2	567.1	570.1	566.7
160°	574.5	571.9	574.5	577.1	574.0
162.5°	581.4	578.8	581.0	584.0	580.1
165°	587.5	584.9	586.2	589.2	586.2
167.5°	592.3	589.7	591.0	594.0	590.1
170°	596.2	593.6	594.4	597.5	593.6
172.5°	598.8	596.2	597.0	600.1	596.2
175°	600.9	597.9	598.8	601.8	597.5
177.5°	601.8	598.8	599.2	602.2	598.3
180°	599.6	599.6	599.6	599.6	599.6

(END OF REPORT)