

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: P1029242

Luminaire Tested: S122DIW-B1005D435UB2750-4F0-XX-W2A-F_4000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029242
REPORT IS A COMBINATION OF REPORTS P985250 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_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

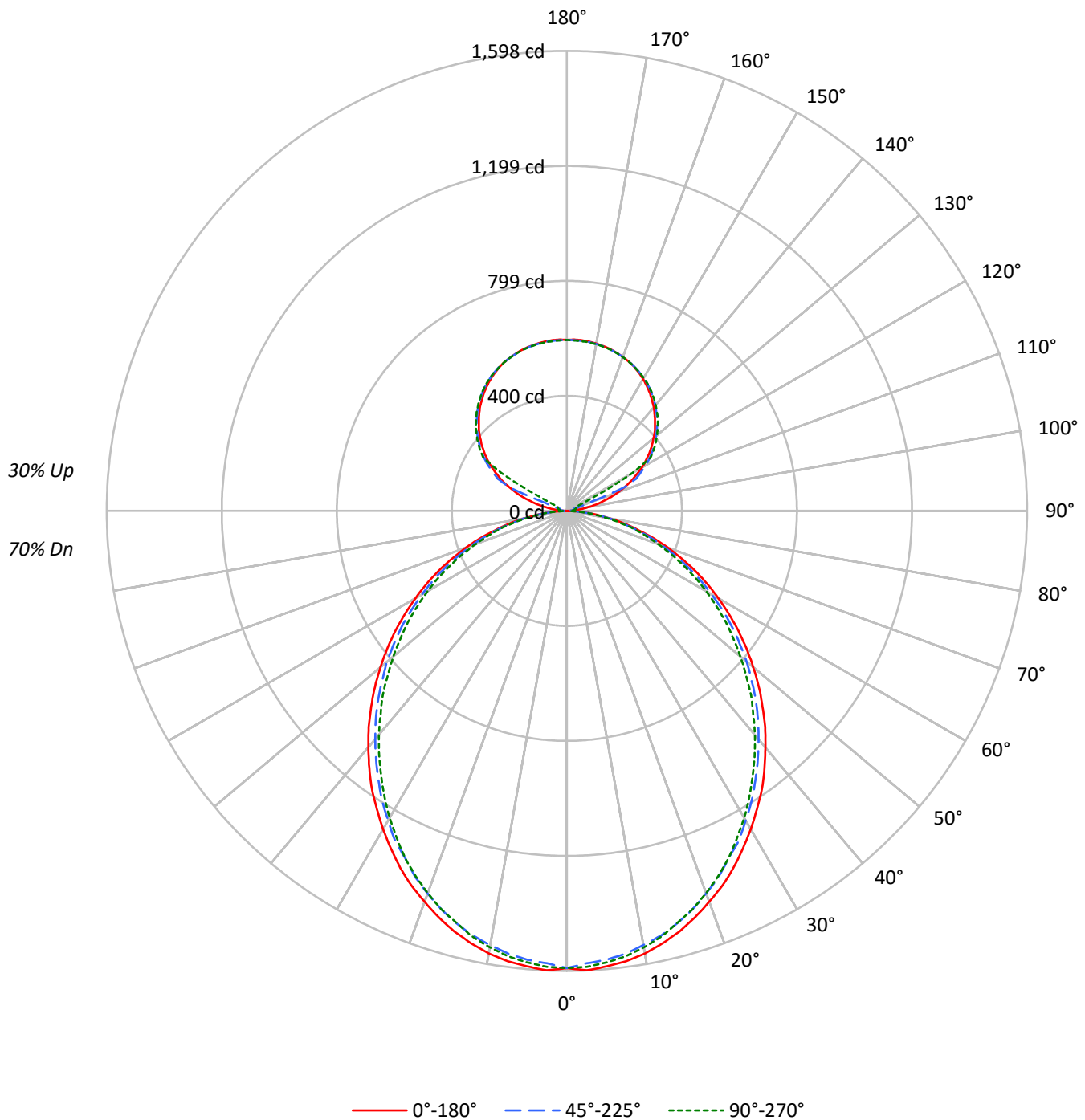
Lumens per Lamp: N/A
Luminaire Lumens: 5783.0 lumens
Efficiency: N/A
Efficacy: 77.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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°	25142	25142	25142
5°	25183	23965	23795
10°	24979	22873	22420
15°	24613	21773	20971
20°	24118	20575	19601
25°	23625	19325	18232
30°	23005	18152	16796
35°	22421	16912	15385
40°	21698	15689	14051
45°	20979	14475	12743
50°	20197	13242	11386
55°	19372	11922	10101
60°	18443	10493	8766
65°	17426	9040	7360
70°	16136	7451	5944
75°	14354	5744	4590
80°	12191	3903	2954
85°	8843	1817	1258

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 20979 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.5	2.6
10°-20°	420.6	7.3
20°-30°	618.1	10.7
30°-40°	717.9	12.4
40°-50°	717.0	12.4
50°-60°	625.2	10.8
60°-70°	462.2	8.0
70°-80°	261.5	4.5
80°-90°	70.1	1.2
90°-100°	19.6	0.3
100°-110°	73.0	1.3
110°-120°	193.6	3.3
120°-130°	321.1	5.6
130°-140°	341.1	5.9
140°-150°	317.0	5.5
150°-160°	254.9	4.4
160°-170°	164.2	2.8
170°-180°	56.5	1.0
0°-30°	1188.2	20.5
0°-40°	1906.1	33.0
0°-60°	3248.3	56.2
0°-90°	4042.0	69.9
90°-120°	286.2	4.9
90°-150°	1265.3	21.9
90°-180°	1741.0	30.1
0°-180°	5783.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1588	1588	1588	1588	1588	
5°	1588	1582	1565	1578	1575	151
15°	1512	1503	1483	1489	1481	426
25°	1368	1356	1330	1333	1330	630
35°	1181	1165	1141	1132	1124	737
45°	961	950	927	910	904	741
55°	727	718	700	681	674	650
65°	490	481	466	452	444	485
75°	257	254	246	237	240	274
85°	63	61	60	55	54	70
90°	0	5	9	11	12	5
95°	28	14	17	19	18	33
105°	131	144	26	31	33	140
115°	247	254	265	66	35	243
125°	349	355	363	366	367	312
135°	432	439	443	447	446	334
145°	502	501	508	511	509	314
155°	552	548	554	556	553	254
165°	582	579	580	584	580	164
175°	595	592	593	596	592	57
180°	594	594	594	594	594	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1588.3	1588.3	1588.3	1588.3	1588.3
2.5°	1597.5	1589.9	1573.1	1588.3	1585.3
5°	1588.3	1582.2	1565.4	1577.7	1574.6
7.5°	1577.7	1568.5	1551.7	1563.9	1560.9
10°	1560.9	1550.2	1531.8	1544.1	1539.5
12.5°	1537.9	1528.8	1510.5	1518.1	1515.0
15°	1512.0	1502.8	1483.0	1489.1	1481.4
17.5°	1479.9	1470.7	1450.9	1458.5	1450.9
20°	1444.8	1435.6	1414.2	1418.8	1412.7
22.5°	1409.7	1395.9	1376.1	1376.1	1373.0
25°	1368.4	1356.2	1330.2	1333.3	1330.2
27.5°	1322.6	1311.9	1292.1	1287.5	1279.8
30°	1276.8	1264.6	1241.7	1237.1	1231.0
32.5°	1227.9	1218.7	1194.3	1185.1	1179.0
35°	1180.6	1165.3	1140.9	1131.7	1124.1
37.5°	1127.1	1113.4	1088.9	1078.2	1070.6
40°	1072.1	1059.9	1035.5	1021.7	1015.6
42.5°	1018.7	1006.5	982.0	966.8	957.6
45°	960.6	950.0	927.0	910.2	904.1
47.5°	904.1	893.4	869.0	852.2	843.0
50°	844.6	836.9	815.6	794.2	786.5
52.5°	786.5	775.8	756.0	739.2	728.5
55°	727.0	717.8	699.5	681.2	673.5
57.5°	667.4	659.8	639.9	621.6	615.5
60°	607.8	601.7	580.4	563.6	559.0
62.5°	549.8	539.1	523.8	508.6	502.5
65°	490.2	481.1	465.8	452.1	444.4
67.5°	429.2	421.5	407.8	397.1	391.0
70°	372.6	366.5	352.8	342.1	336.0
72.5°	314.6	308.5	300.9	290.2	285.6
75°	256.6	253.5	245.9	236.7	239.8
77.5°	204.7	198.5	195.5	190.9	186.3
80°	152.7	151.2	148.1	143.6	140.5
82.5°	103.9	103.9	102.3	96.2	96.2
85°	62.6	61.1	59.6	55.0	53.5
87.5°	27.5	24.4	21.4	16.8	15.3
90°	0.4	5.2	8.6	10.7	11.6
92.5°	10.7	9.0	10.3	11.2	11.6
95°	27.9	13.8	16.8	18.9	18.5
97.5°	50.3	15.0	21.9	23.2	23.6
100°	76.1	17.2	24.5	27.9	28.8
102.5°	104.4	103.6	25.4	30.1	31.4
105°	130.6	143.5	26.2	30.9	32.7
107.5°	161.1	171.9	27.1	31.8	33.5
110°	190.4	199.4	75.2	32.2	33.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	217.9	225.6	218.3	33.1	34.4
115°	247.1	254.4	265.1	66.2	35.2
117.5°	272.4	281.0	288.3	226.9	114.3
120°	300.8	307.2	315.0	320.1	262.1
122.5°	324.9	331.7	340.3	342.9	343.3
125°	349.3	354.9	363.1	366.1	367.4
127.5°	371.7	377.7	384.2	388.5	388.9
130°	392.7	399.6	404.3	409.1	408.6
132.5°	414.2	419.8	424.5	428.4	428.0
135°	432.3	439.2	443.0	447.3	446.5
137.5°	451.2	456.3	460.6	464.9	463.6
140°	469.7	473.1	477.8	481.7	479.5
142.5°	485.1	488.1	493.7	497.2	495.0
145°	501.5	501.0	508.3	511.3	509.2
147.5°	515.6	514.4	521.7	523.8	522.1
150°	529.4	526.4	533.3	535.8	533.7
152.5°	541.0	537.6	544.0	546.6	543.6
155°	552.2	548.3	553.5	556.0	552.6
157.5°	561.2	557.8	561.6	564.6	561.2
160°	568.9	566.3	568.9	571.5	568.5
162.5°	575.8	573.2	575.4	578.4	574.5
165°	581.8	579.2	580.5	583.5	580.5
167.5°	586.5	584.0	585.3	588.3	584.4
170°	590.4	587.8	588.7	591.7	587.8
172.5°	593.0	590.4	591.3	594.3	590.4
175°	595.1	592.1	593.0	596.0	591.7
177.5°	596.0	593.0	593.4	596.4	592.6
180°	593.8	593.8	593.8	593.8	593.8

(END OF REPORT)