

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: P1029476

Luminaire Tested: S122DIW-B485D1240UB2750-4F0-XX-W2A-F_4000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029476
REPORT IS A COMBINATION OF REPORTS P985970 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIW-B485D1240UB2750-4F0-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

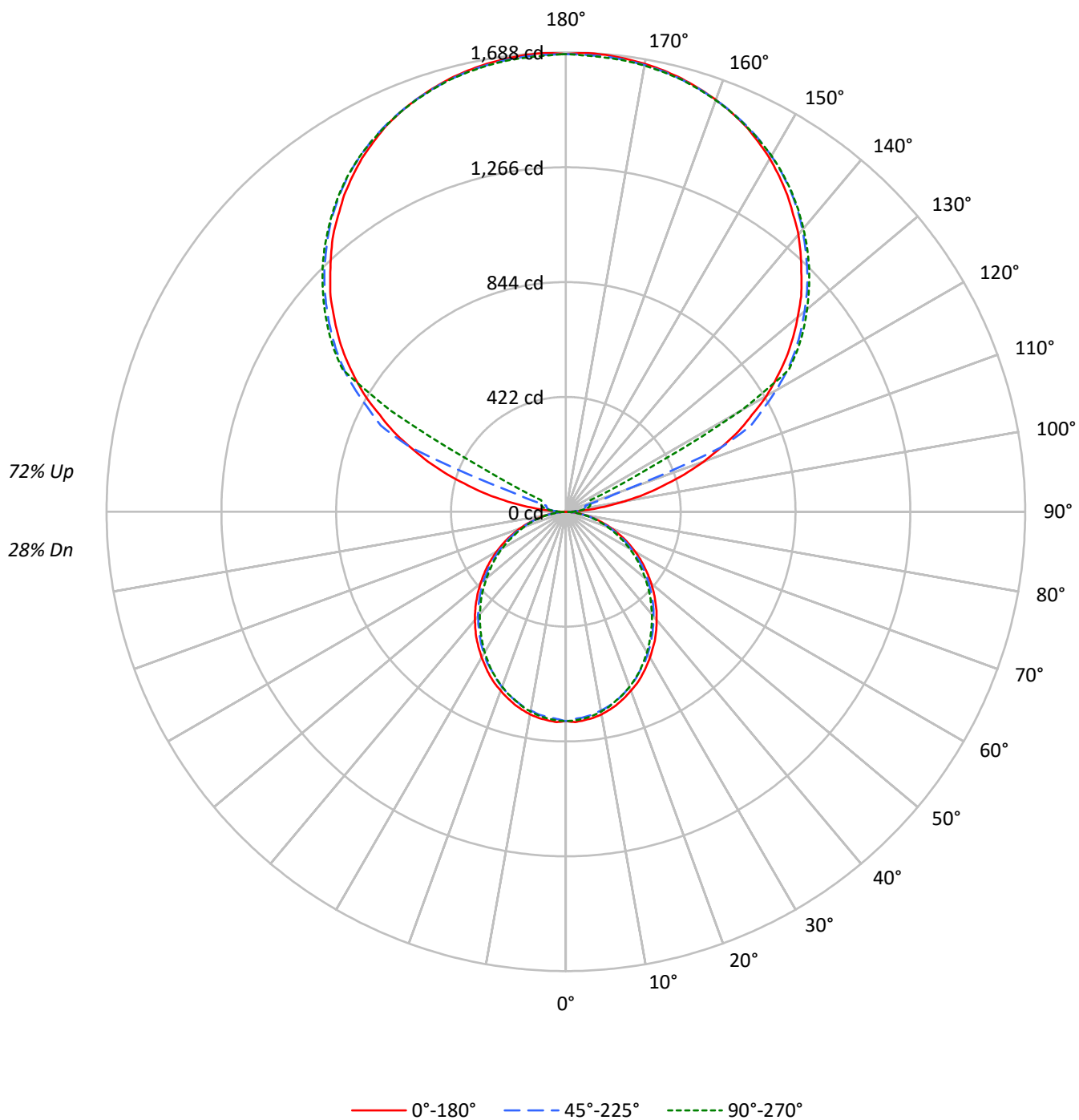
Lumens per Lamp: N/A
Luminaire Lumens: 6890.0 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 66.1
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					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36			28
1	93	89	85	82	83	80	76	74	62	60	58	47	45	44	32	31	31			24
2	85	77	72	67	75	70	65	60	55	51	48	41	39	37	28	27	26			20
3	77	68	61	55	69	61	55	50	48	44	41	36	33	31	25	23	22			17
4	70	60	52	47	63	54	48	43	43	38	34	32	29	27	22	20	19			15
5	65	53	46	40	58	48	41	36	38	33	30	29	25	23	20	18	16			13
6	59	48	40	34	53	43	36	31	34	29	26	26	23	20	18	16	14			11
7	55	43	35	30	49	39	32	27	31	26	22	24	20	18	17	14	13			10
8	51	39	31	26	45	35	29	24	28	23	20	21	18	16	15	13	11			9
9	47	35	28	23	42	32	26	21	26	21	18	20	16	14	14	12	10			8
10	44	32	25	21	39	29	23	19	24	19	16	18	15	13	13	11	9			7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12176	12176	12176
5°	12196	11606	11524
10°	12097	11076	10857
15°	11919	10544	10156
20°	11680	9965	9493
25°	11441	9359	8829
30°	11141	8790	8133
35°	10857	8190	7451
40°	10508	7598	6805
45°	10160	7011	6172
50°	9781	6413	5514
55°	9382	5772	4892
60°	8933	5082	4245
65°	8439	4378	3564
70°	7817	3609	2878
75°	6953	2782	2222
80°	5908	1889	1430
85°	4280	878	609

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10160 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.4	1.1
10°-20°	203.7	3.0
20°-30°	299.3	4.3
30°-40°	347.7	5.0
40°-50°	347.2	5.0
50°-60°	302.8	4.4
60°-70°	223.8	3.2
70°-80°	126.6	1.8
80°-90°	36.4	0.5
90°-100°	55.5	0.8
100°-110°	206.7	3.0
110°-120°	548.2	8.0
120°-130°	909.3	13.2
130°-140°	965.9	14.0
140°-150°	897.7	13.0
150°-160°	721.7	10.5
160°-170°	465.0	6.7
170°-180°	160.1	2.3
0°-30°	575.4	8.4
0°-40°	923.1	13.4
0°-60°	1573.1	22.8
0°-90°	1959.9	28.4
90°-120°	810.4	11.8
90°-150°	3583.2	52.0
90°-180°	4930.0	71.6
0°-180°	6890.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	769	769	769	769	769	
5°	769	766	758	764	763	73
15°	732	728	718	721	717	206
25°	663	657	644	646	644	305
35°	572	564	552	548	544	357
45°	465	460	449	441	438	359
55°	352	348	339	330	326	315
65°	237	233	226	219	215	235
75°	124	123	119	115	116	133
85°	30	30	29	27	26	34
90°	1	15	24	30	33	6
95°	79	39	48	54	52	94
105°	370	406	74	88	92	395
115°	700	720	751	187	100	689
125°	989	1005	1028	1037	1040	882
135°	1224	1244	1255	1267	1264	946
145°	1420	1419	1440	1448	1442	888
155°	1564	1553	1567	1575	1565	721
165°	1648	1640	1644	1652	1644	465
175°	1685	1677	1679	1688	1676	160
180°	1682	1682	1682	1682	1682	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	769.2	769.2	769.2	769.2	769.2
2.5°	773.7	770.0	761.8	769.2	767.7
5°	769.2	766.3	758.1	764.0	762.6
7.5°	764.0	759.6	751.5	757.4	755.9
10°	755.9	750.7	741.8	747.8	745.5
12.5°	744.8	740.4	731.5	735.2	733.7
15°	732.2	727.8	718.2	721.1	717.4
17.5°	716.7	712.3	702.6	706.3	702.6
20°	699.7	695.2	684.9	687.1	684.2
22.5°	682.7	676.0	666.4	666.4	664.9
25°	662.7	656.8	644.2	645.7	644.2
27.5°	640.5	635.3	625.7	623.5	619.8
30°	618.3	612.4	601.3	599.1	596.1
32.5°	594.7	590.2	578.4	574.0	571.0
35°	571.7	564.3	552.5	548.1	544.4
37.5°	545.8	539.2	527.4	522.2	518.5
40°	519.2	513.3	501.5	494.8	491.9
42.5°	493.3	487.4	475.6	468.2	463.7
45°	465.2	460.0	449.0	440.8	437.9
47.5°	437.9	432.7	420.8	412.7	408.3
50°	409.0	405.3	395.0	384.6	380.9
52.5°	380.9	375.7	366.1	358.0	352.8
55°	352.1	347.6	338.7	329.9	326.2
57.5°	323.2	319.5	309.9	301.0	298.1
60°	294.4	291.4	281.1	272.9	270.7
62.5°	266.3	261.1	253.7	246.3	243.3
65°	237.4	233.0	225.6	218.9	215.2
67.5°	207.8	204.1	197.5	192.3	189.3
70°	180.5	177.5	170.9	165.7	162.7
72.5°	152.4	149.4	145.7	140.5	138.3
75°	124.3	122.8	119.1	114.6	116.1
77.5°	99.1	96.2	94.7	92.5	90.2
80°	74.0	73.2	71.7	69.5	68.0
82.5°	50.3	50.3	49.6	46.6	46.6
85°	30.3	29.6	28.8	26.6	25.9
87.5°	13.3	11.8	10.4	8.1	7.4
90°	1.2	14.6	24.3	30.4	32.9
92.5°	30.4	25.6	29.2	31.6	32.9
95°	79.1	38.9	47.5	53.5	52.3
97.5°	142.4	42.6	62.1	65.7	66.9
100°	215.4	48.7	69.4	79.1	81.5
102.5°	295.7	293.3	71.8	85.2	88.8
105°	369.9	406.4	74.2	87.6	92.5
107.5°	456.3	486.7	76.7	90.0	94.9
110°	539.1	564.6	212.9	91.3	96.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	616.9	638.8	618.2	93.7	97.3
115°	699.7	720.4	750.8	187.4	99.8
117.5°	771.5	795.8	816.5	642.5	323.7
120°	851.8	870.0	891.9	906.5	742.3
122.5°	919.9	939.4	963.7	971.0	972.2
125°	989.3	1005.1	1028.2	1036.7	1040.4
127.5°	1052.6	1069.6	1087.8	1100.0	1101.2
130°	1112.2	1131.7	1145.0	1158.4	1157.2
132.5°	1173.0	1188.8	1202.2	1213.2	1212.0
135°	1224.1	1243.6	1254.6	1266.7	1264.3
137.5°	1277.7	1292.3	1304.4	1316.6	1313.0
140°	1330.0	1339.7	1353.1	1364.1	1358.0
142.5°	1373.8	1382.3	1398.1	1407.9	1401.8
145°	1420.0	1418.8	1439.5	1448.0	1441.9
147.5°	1460.2	1456.5	1477.2	1483.3	1478.5
150°	1499.1	1490.6	1510.1	1517.4	1511.3
152.5°	1532.0	1522.3	1540.5	1547.8	1539.3
155°	1563.6	1552.7	1567.3	1574.6	1564.8
157.5°	1589.2	1579.4	1590.4	1598.9	1589.2
160°	1611.1	1603.8	1611.1	1618.4	1609.9
162.5°	1630.6	1623.3	1629.3	1637.9	1626.9
165°	1647.6	1640.3	1643.9	1652.5	1643.9
167.5°	1661.0	1653.7	1657.3	1665.8	1654.9
170°	1671.9	1664.6	1667.1	1675.6	1664.6
172.5°	1679.2	1671.9	1674.4	1682.9	1671.9
175°	1685.3	1676.8	1679.2	1687.7	1675.6
177.5°	1687.7	1679.2	1680.4	1689.0	1678.0
180°	1681.7	1681.7	1681.7	1681.7	1681.7

(END OF REPORT)