

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: P1029459

Luminaire Tested: S122DIW-B485D1240UB2750-4F0-XX-W2A-D1_3000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029459
REPORT IS A COMBINATION OF REPORTS P985943 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-D1_3000K
Description: Define 2 Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

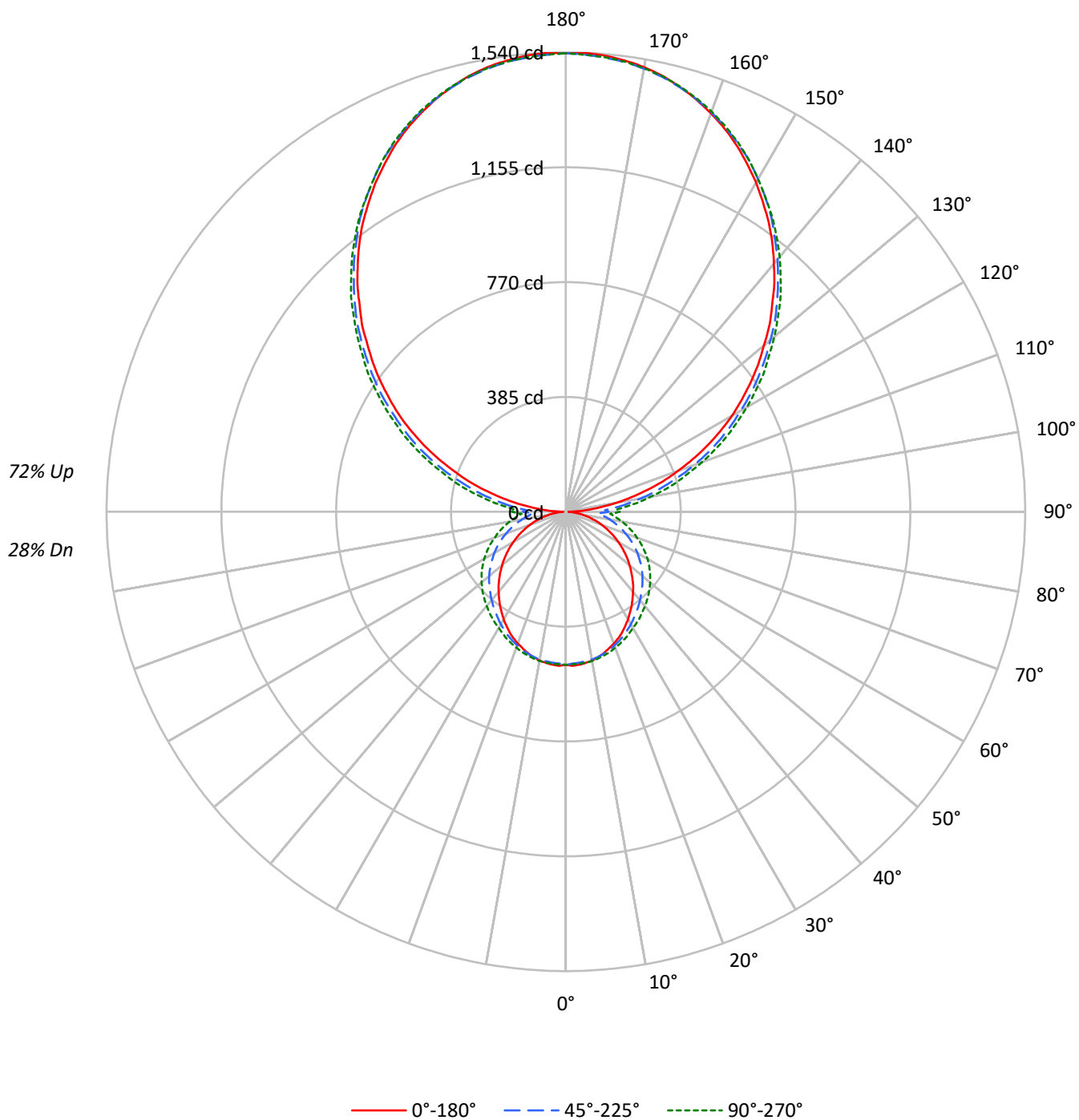
Lumens per Lamp: N/A
Luminaire Lumens: 6260.0 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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				20
RC	80				70				50				30				10				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36	28			
1	92	87	83	80	82	78	75	72	61	58	56	45	43	42	30	29	28	22			
2	83	76	70	64	74	68	63	58	53	49	46	39	36	34	26	25	23	18			
3	76	66	59	53	67	59	53	48	46	42	38	34	31	29	23	21	19	14			
4	69	58	51	44	61	52	46	40	41	36	32	30	27	24	20	18	17	12			
5	63	52	44	38	56	46	39	34	36	31	27	27	23	21	18	16	14	10			
6	58	46	38	32	52	41	35	29	33	27	24	24	21	18	16	14	12	9			
7	54	41	34	28	48	37	30	26	29	24	21	22	18	16	15	13	11	8			
8	50	37	30	25	44	34	27	22	27	22	18	20	16	14	14	11	10	7			
9	46	34	27	22	41	31	24	20	24	19	16	18	15	12	12	10	9	6			
10	43	31	24	19	38	28	22	18	22	18	14	17	13	11	12	9	8	6			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8122	8122	8122
5°	8159	7775	7733
10°	8105	7506	7397
15°	7990	7228	7054
20°	7846	6935	6728
25°	7703	6655	6432
30°	7505	6371	6139
35°	7302	6097	5924
40°	7090	5859	5711
45°	6886	5643	5524
50°	6669	5445	5341
55°	6440	5234	5153
60°	6160	5015	4957
65°	5869	4763	4730
70°	5539	4492	4486
75°	5119	4221	4257
80°	4455	3940	4018
85°	3786	3674	3812

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6886 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.6	0.8
10°-20°	139.5	2.2
20°-30°	211.4	3.4
30°-40°	257.4	4.1
40°-50°	277.0	4.4
50°-60°	269.0	4.3
60°-70°	234.9	3.8
70°-80°	180.8	2.9
80°-90°	125.5	2.0
90°-100°	178.6	2.9
100°-110°	363.3	5.8
110°-120°	557.5	8.9
120°-130°	702.7	11.2
130°-140°	773.0	12.3
140°-150°	750.4	12.0
150°-160°	628.1	10.0
160°-170°	416.6	6.7
170°-180°	145.6	2.3
0°-30°	399.6	6.4
0°-40°	657.0	10.5
0°-60°	1202.9	19.2
0°-90°	1744.1	27.9
90°-120°	1099.5	17.6
90°-150°	3325.6	53.1
90°-180°	4516.0	72.1
0°-180°	6260.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	513	513	513	513	513	
5°	515	512	508	512	512	49
15°	491	492	492	499	498	138
25°	446	451	458	467	469	205
35°	384	397	411	428	433	240
45°	315	335	361	384	392	243
55°	242	268	307	334	344	216
65°	165	202	245	276	286	164
75°	92	133	181	213	222	97
85°	27	73	120	152	162	28
90°	9	68	144	171	181	9
95°	73	121	168	197	203	80
105°	283	308	349	378	386	299
115°	522	538	569	590	594	516
125°	756	768	788	804	810	676
135°	978	992	1002	1016	1018	756
145°	1186	1195	1202	1208	1207	741
155°	1356	1360	1363	1370	1366	624
165°	1475	1474	1474	1483	1476	416
175°	1535	1531	1528	1537	1529	146
180°	1537	1537	1537	1537	1537	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	513.1	513.1	513.1	513.1	513.1
2.5°	516.9	514.6	509.4	513.1	511.7
5°	514.6	512.4	507.9	512.4	511.7
7.5°	510.9	509.4	505.7	510.9	510.2
10°	506.5	505.0	502.7	508.7	507.9
12.5°	499.0	499.8	498.3	504.2	503.5
15°	490.8	492.3	492.3	499.0	498.3
17.5°	480.4	483.4	485.6	492.3	492.3
20°	470.0	473.7	476.7	484.9	484.9
22.5°	458.9	463.3	467.8	476.0	477.5
25°	446.2	451.4	458.1	467.0	469.3
27.5°	431.3	439.5	447.0	458.1	459.6
30°	416.5	426.1	435.8	447.7	449.9
32.5°	400.1	411.3	423.2	437.3	441.8
35°	384.5	397.1	411.3	427.6	432.8
37.5°	367.4	381.5	399.4	417.2	422.4
40°	350.3	366.6	386.7	406.1	412.8
42.5°	333.9	350.3	374.1	395.6	402.3
45°	315.3	335.4	361.4	384.5	391.9
47.5°	297.5	319.0	348.8	372.6	380.8
50°	278.9	301.9	335.4	360.7	368.9
52.5°	261.0	285.6	321.3	347.3	356.2
55°	241.7	268.5	307.1	333.9	343.6
57.5°	223.1	252.9	291.5	320.5	330.2
60°	203.0	235.0	277.4	305.7	316.1
62.5°	185.2	218.6	261.0	291.5	301.2
65°	165.1	201.5	245.4	275.9	285.6
67.5°	147.3	185.2	229.8	260.3	270.7
70°	127.9	166.6	212.7	244.7	253.6
72.5°	110.1	150.2	197.1	228.3	239.5
75°	91.5	133.1	180.7	212.7	222.4
77.5°	73.6	116.8	165.1	197.1	207.5
80°	55.8	101.1	149.5	180.7	191.1
82.5°	40.9	85.5	134.6	165.8	175.5
85°	26.8	72.9	120.5	151.7	162.1
87.5°	16.4	61.0	108.6	139.1	148.7
90°	8.7	67.5	143.6	170.7	180.9
92.5°	35.2	85.0	131.7	162.0	170.9
95°	73.4	121.3	168.5	196.8	203.1
97.5°	118.1	161.7	210.0	237.5	246.5
100°	169.9	207.8	253.4	280.9	287.8
102.5°	223.7	256.0	301.4	329.4	336.3
105°	282.6	308.1	349.4	378.0	386.2
107.5°	342.3	365.4	402.6	429.1	430.8
110°	398.6	421.2	457.7	481.5	485.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	460.9	480.6	513.5	533.4	539.0
115°	521.9	537.9	568.7	589.7	594.0
117.5°	582.0	598.4	623.1	641.5	645.2
120°	643.0	656.4	675.8	696.6	700.9
122.5°	698.8	712.6	733.6	749.8	753.9
125°	756.5	768.1	788.0	804.3	809.7
127.5°	813.5	827.0	841.9	855.3	858.1
130°	866.7	882.8	895.9	911.1	911.9
132.5°	926.4	938.6	951.1	961.7	963.8
135°	977.5	991.8	1001.8	1016.1	1018.2
137.5°	1034.6	1046.2	1052.6	1065.4	1065.4
140°	1085.1	1096.1	1104.1	1116.0	1115.2
142.5°	1137.0	1148.0	1151.9	1162.1	1160.6
145°	1185.6	1194.7	1202.5	1208.3	1206.8
147.5°	1229.7	1241.4	1246.6	1249.9	1247.0
150°	1275.1	1282.9	1288.1	1292.0	1288.1
152.5°	1315.3	1323.1	1329.6	1334.8	1329.6
155°	1355.6	1359.5	1363.3	1369.8	1365.9
157.5°	1390.6	1393.2	1395.8	1404.9	1398.4
160°	1421.7	1424.3	1425.6	1433.4	1428.2
162.5°	1450.3	1450.3	1451.6	1460.6	1454.1
165°	1474.9	1473.6	1473.6	1482.7	1476.2
167.5°	1497.0	1493.1	1493.1	1502.1	1495.7
170°	1513.8	1509.9	1508.6	1517.7	1509.9
172.5°	1525.5	1521.6	1520.3	1529.4	1521.6
175°	1534.6	1530.7	1528.1	1537.2	1529.4
177.5°	1539.8	1535.9	1533.3	1541.1	1533.3
180°	1537.2	1537.2	1537.2	1537.2	1537.2

(END OF REPORT)