

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: P1029458

Luminaire Tested: S122DIW-B485D1240UB2750-4F0-XX-W2A-D1_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029458
REPORT IS A COMBINATION OF REPORTS P985942 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_2700K
Description: Define 2 Direct/Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

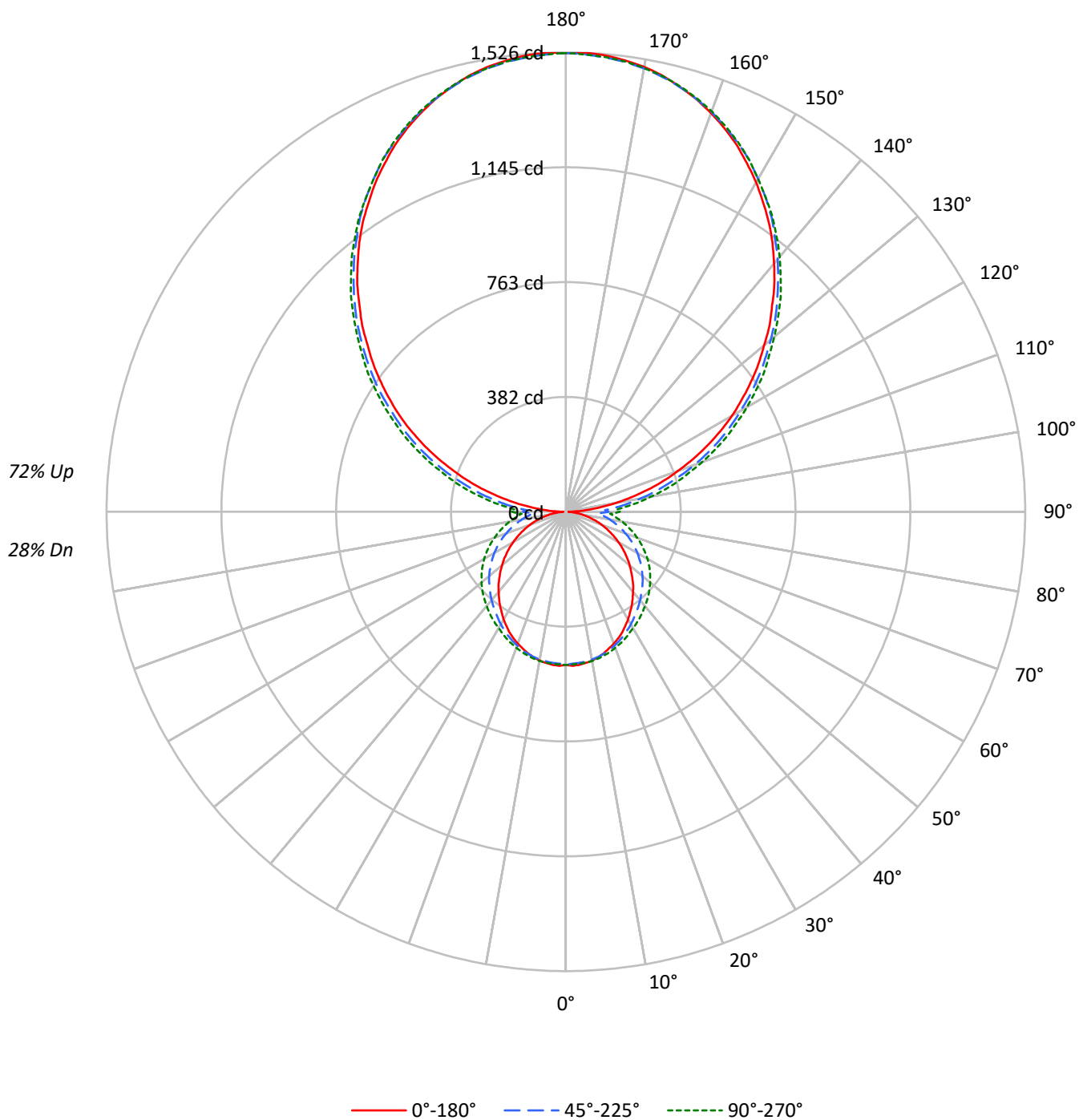
Lumens per Lamp: N/A
Luminaire Lumens: 6206.0 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8052	8052	8052
5°	8089	7708	7665
10°	8035	7442	7332
15°	7921	7166	6992
20°	7777	6876	6670
25°	7636	6597	6376
30°	7440	6315	6085
35°	7240	6043	5873
40°	7027	5809	5661
45°	6827	5595	5476
50°	6612	5398	5294
55°	6384	5190	5108
60°	6108	4972	4913
65°	5819	4722	4689
70°	5491	4454	4447
75°	5074	4184	4219
80°	4415	3905	3984
85°	3743	3641	3779

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6827 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.2	0.8
10°-20°	138.3	2.2
20°-30°	209.6	3.4
30°-40°	255.2	4.1
40°-50°	274.6	4.4
50°-60°	266.6	4.3
60°-70°	232.9	3.8
70°-80°	179.2	2.9
80°-90°	124.4	2.0
90°-100°	177.1	2.9
100°-110°	360.2	5.8
110°-120°	552.8	8.9
120°-130°	696.7	11.2
130°-140°	766.4	12.3
140°-150°	743.9	12.0
150°-160°	622.7	10.0
160°-170°	413.0	6.7
170°-180°	144.3	2.3
0°-30°	396.1	6.4
0°-40°	651.3	10.5
0°-60°	1192.5	19.2
0°-90°	1729.0	27.9
90°-120°	1090.0	17.6
90°-150°	3297.0	53.1
90°-180°	4477.0	72.1
0°-180°	6206.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	509	509	509	509	509	
5°	510	508	504	508	507	48
15°	487	488	488	495	494	137
25°	442	448	454	463	465	203
35°	381	394	408	424	429	238
45°	313	332	358	381	388	241
55°	240	266	304	331	341	214
65°	164	200	243	274	283	163
75°	91	132	179	211	220	96
85°	26	72	119	150	161	28
90°	9	67	142	169	179	9
95°	73	120	167	195	201	79
105°	280	306	346	375	383	296
115°	517	533	564	585	589	512
125°	750	762	781	797	803	670
135°	969	983	993	1007	1010	749
145°	1175	1184	1192	1198	1196	735
155°	1344	1348	1352	1358	1354	619
165°	1462	1461	1461	1470	1464	412
175°	1521	1518	1515	1524	1516	145
180°	1524	1524	1524	1524	1524	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	508.7	508.7	508.7	508.7	508.7
2.5°	512.4	510.2	505.0	508.7	507.2
5°	510.2	508.0	503.5	508.0	507.2
7.5°	506.5	505.0	501.3	506.5	505.7
10°	502.1	500.6	498.4	504.3	503.5
12.5°	494.7	495.4	493.9	499.8	499.1
15°	486.6	488.1	488.1	494.7	493.9
17.5°	476.3	479.2	481.4	488.1	488.1
20°	465.9	469.6	472.6	480.7	480.7
22.5°	454.9	459.3	463.7	471.8	473.3
25°	442.3	447.5	454.1	463.0	465.2
27.5°	427.6	435.7	443.1	454.1	455.6
30°	412.9	422.4	432.0	443.8	446.0
32.5°	396.6	407.7	419.5	433.5	437.9
35°	381.2	393.7	407.7	423.9	429.1
37.5°	364.2	378.2	395.9	413.6	418.8
40°	347.2	363.5	383.4	402.5	409.2
42.5°	331.0	347.2	370.8	392.2	398.8
45°	312.6	332.5	358.3	381.2	388.5
47.5°	294.9	316.3	345.8	369.4	377.5
50°	276.5	299.3	332.5	357.6	365.7
52.5°	258.8	283.1	318.5	344.3	353.1
55°	239.6	266.1	304.5	331.0	340.6
57.5°	221.2	250.7	289.0	317.7	327.3
60°	201.3	233.0	275.0	303.0	313.3
62.5°	183.6	216.7	258.8	289.0	298.6
65°	163.7	199.8	243.3	273.5	283.1
67.5°	146.0	183.6	227.8	258.0	268.4
70°	126.8	165.1	210.9	242.6	251.4
72.5°	109.1	148.9	195.4	226.3	237.4
75°	90.7	132.0	179.1	210.9	220.4
77.5°	73.0	115.7	163.7	195.4	205.7
80°	55.3	100.3	148.2	179.1	189.5
82.5°	40.5	84.8	133.4	164.4	174.0
85°	26.5	72.2	119.4	150.4	160.7
87.5°	16.2	60.5	107.6	137.9	147.4
90°	8.7	66.8	142.3	169.2	179.4
92.5°	34.9	84.3	130.6	160.6	169.5
95°	72.8	120.2	167.1	195.1	201.3
97.5°	117.1	160.4	208.2	235.5	244.3
100°	168.5	206.0	251.2	278.5	285.3
102.5°	221.7	253.9	298.8	326.6	333.4
105°	280.2	305.5	346.3	374.7	382.8
107.5°	339.4	362.2	399.0	425.4	427.1
110°	395.1	417.7	453.8	477.4	481.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	456.9	476.4	509.1	528.7	534.4
115°	517.3	533.2	563.8	584.7	588.9
117.5°	577.1	593.2	617.8	636.1	639.6
120°	637.5	650.8	670.0	690.6	694.8
122.5°	692.8	706.4	727.2	743.3	747.4
125°	750.0	761.5	781.3	797.3	802.6
127.5°	806.6	819.9	834.7	848.0	850.8
130°	859.3	875.2	888.1	903.3	904.0
132.5°	918.4	930.5	942.9	953.5	955.5
135°	969.1	983.2	993.2	1007.4	1009.5
137.5°	1025.7	1037.2	1043.5	1056.2	1056.3
140°	1075.8	1086.7	1094.6	1106.4	1105.7
142.5°	1127.3	1138.1	1142.0	1152.1	1150.6
145°	1175.4	1184.4	1192.1	1197.8	1196.4
147.5°	1219.2	1230.7	1235.9	1239.1	1236.2
150°	1264.2	1271.9	1277.0	1280.9	1277.0
152.5°	1304.0	1311.8	1318.2	1323.3	1318.2
155°	1343.9	1347.8	1351.6	1358.0	1354.2
157.5°	1378.6	1381.2	1383.8	1392.8	1386.3
160°	1409.5	1412.1	1413.3	1421.1	1415.9
162.5°	1437.8	1437.8	1439.1	1448.1	1441.6
165°	1462.2	1460.9	1460.9	1469.9	1463.5
167.5°	1484.1	1480.2	1480.2	1489.2	1482.8
170°	1500.8	1496.9	1495.7	1504.7	1496.9
172.5°	1512.4	1508.5	1507.2	1516.2	1508.5
175°	1521.4	1517.5	1514.9	1523.9	1516.2
177.5°	1526.5	1522.7	1520.1	1527.8	1520.1
180°	1523.9	1523.9	1523.9	1523.9	1523.9

(END OF REPORT)