

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: P1029463

Luminaire Tested: S122DIW-B485D1240UB2750-4F0-XX-W2A-D_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029463
REPORT IS A COMBINATION OF REPORTS P985952 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-D_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

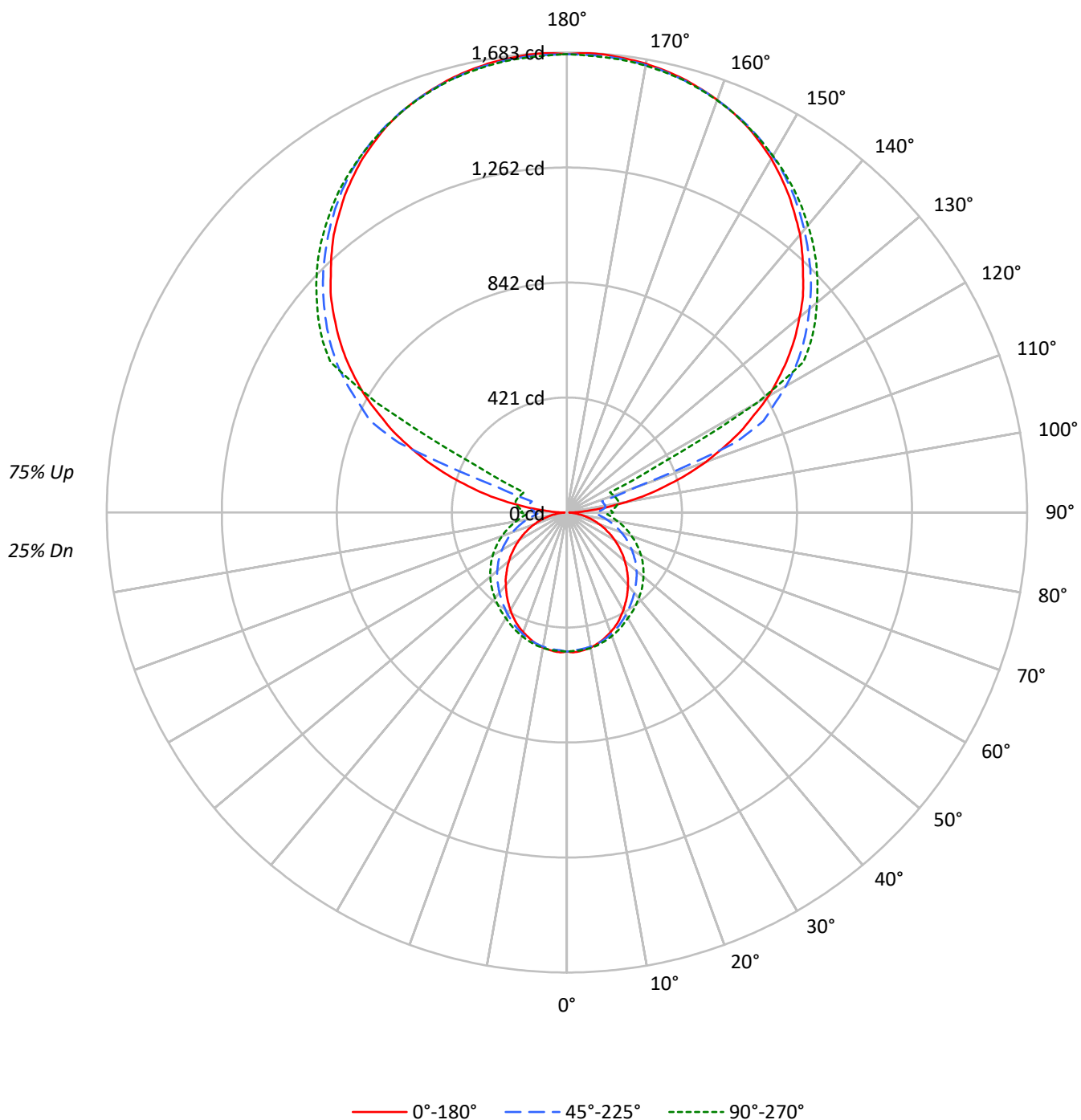
Lumens per Lamp: N/A
Luminaire Lumens: 6860.0 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	101	101	101	101	90	90	90	90	70	70	70	51	51	51	33	33	33
1	91	87	83	79	81	77	74	71	60	57	55	43	42	40	28	27	27
2	83	75	69	64	73	67	62	58	52	48	45	38	35	33	24	23	22
3	75	66	59	53	67	59	53	48	45	41	37	33	30	28	21	20	18
4	69	58	50	44	61	52	45	40	40	35	32	29	26	23	19	17	15
5	63	51	44	38	56	46	39	34	36	31	27	26	23	20	17	15	13
6	58	46	38	32	51	41	34	29	32	27	23	23	20	17	15	13	12
7	53	41	33	28	47	37	30	25	29	24	20	21	18	15	14	12	10
8	49	37	30	25	44	33	27	22	26	21	18	19	16	13	13	11	9
9	46	34	27	22	41	30	24	20	24	19	16	18	14	12	12	10	8
10	43	31	24	19	38	28	22	17	22	17	14	16	13	11	11	9	7

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	0.7
10°-20°	138.3	2.0
20°-30°	209.6	3.1
30°-40°	255.2	3.7
40°-50°	274.6	4.0
50°-60°	266.6	3.9
60°-70°	232.9	3.4
70°-80°	179.2	2.6
80°-90°	123.0	1.8
90°-100°	138.1	2.0
100°-110°	266.6	3.9
110°-120°	586.6	8.6
120°-130°	929.0	13.5
130°-140°	972.5	14.2
140°-150°	896.7	13.1
150°-160°	719.6	10.5
160°-170°	463.7	6.8
170°-180°	159.6	2.3
0°-30°	396.1	5.8
0°-40°	651.3	9.5
0°-60°	1192.5	17.4
0°-90°	1727.6	25.2
90°-120°	991.3	14.5
90°-150°	3789.4	55.2
90°-180°	5132.0	74.8
0°-180°	6860.0	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	65	122	157	168	10
95°	85	79	132	166	174	98
105°	373	430	137	177	190	398
115°	701	729	793	253	174	689
125°	988	1004	1050	1079	1089	881
135°	1221	1241	1259	1287	1290	944
145°	1416	1415	1435	1448	1446	886
155°	1559	1548	1563	1570	1560	718
165°	1643	1636	1639	1648	1639	464
175°	1680	1672	1674	1683	1671	160
180°	1677	1677	1677	1677	1677	

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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°	8.6	64.7	121.6	157.1	168.5
92.5°	36.9	71.2	119.8	150.9	161.1
95°	84.8	79.3	132.1	166.2	173.8
97.5°	147.2	79.4	141.5	172.4	182.4
100°	220.0	80.9	142.9	179.9	190.4
102.5°	299.3	321.2	140.2	180.0	191.8
105°	372.6	430.4	137.4	176.6	189.5
107.5°	458.7	506.8	134.6	173.1	186.0
110°	540.4	580.7	266.1	168.4	181.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	618.1	651.7	665.1	165.6	177.5
115°	700.6	729.4	792.9	253.3	174.0
117.5°	771.5	801.6	853.3	701.9	391.4
120°	851.6	872.8	924.1	959.3	803.6
122.5°	919.5	939.6	991.2	1018.4	1026.3
125°	988.0	1003.8	1050.4	1078.8	1089.0
127.5°	1051.1	1067.3	1105.4	1136.0	1143.8
130°	1110.5	1129.1	1158.0	1189.0	1193.7
132.5°	1171.2	1186.2	1210.6	1238.5	1243.2
135°	1221.4	1240.8	1259.1	1286.7	1290.2
137.5°	1274.7	1289.3	1305.1	1331.3	1332.8
140°	1326.9	1335.9	1350.8	1373.5	1371.8
142.5°	1370.6	1378.4	1394.2	1412.7	1410.3
145°	1416.0	1414.8	1435.4	1448.3	1446.0
147.5°	1456.1	1452.4	1473.0	1479.8	1477.2
150°	1494.9	1486.4	1505.8	1513.1	1507.0
152.5°	1527.6	1517.9	1536.1	1543.4	1534.9
155°	1559.2	1548.3	1562.8	1570.1	1560.4
157.5°	1584.7	1575.0	1585.9	1594.4	1584.7
160°	1606.5	1599.2	1606.5	1613.8	1605.3
162.5°	1625.9	1618.6	1624.7	1633.2	1622.3
165°	1642.9	1635.6	1639.3	1647.8	1639.3
167.5°	1656.3	1649.0	1652.6	1661.1	1650.2
170°	1667.2	1659.9	1662.3	1670.8	1659.9
172.5°	1674.5	1667.2	1669.6	1678.1	1667.2
175°	1680.5	1672.0	1674.5	1683.0	1670.8
177.5°	1683.0	1674.5	1675.7	1684.2	1673.2
180°	1676.9	1676.9	1676.9	1676.9	1676.9

(END OF REPORT)