

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: P1029316

Luminaire Tested: S122DIW-B290D1240UB2750-4F0-XX-W2A-D_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029316
REPORT IS A COMBINATION OF REPORTS P985502 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIW-B290D1240UB2750-4F0-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

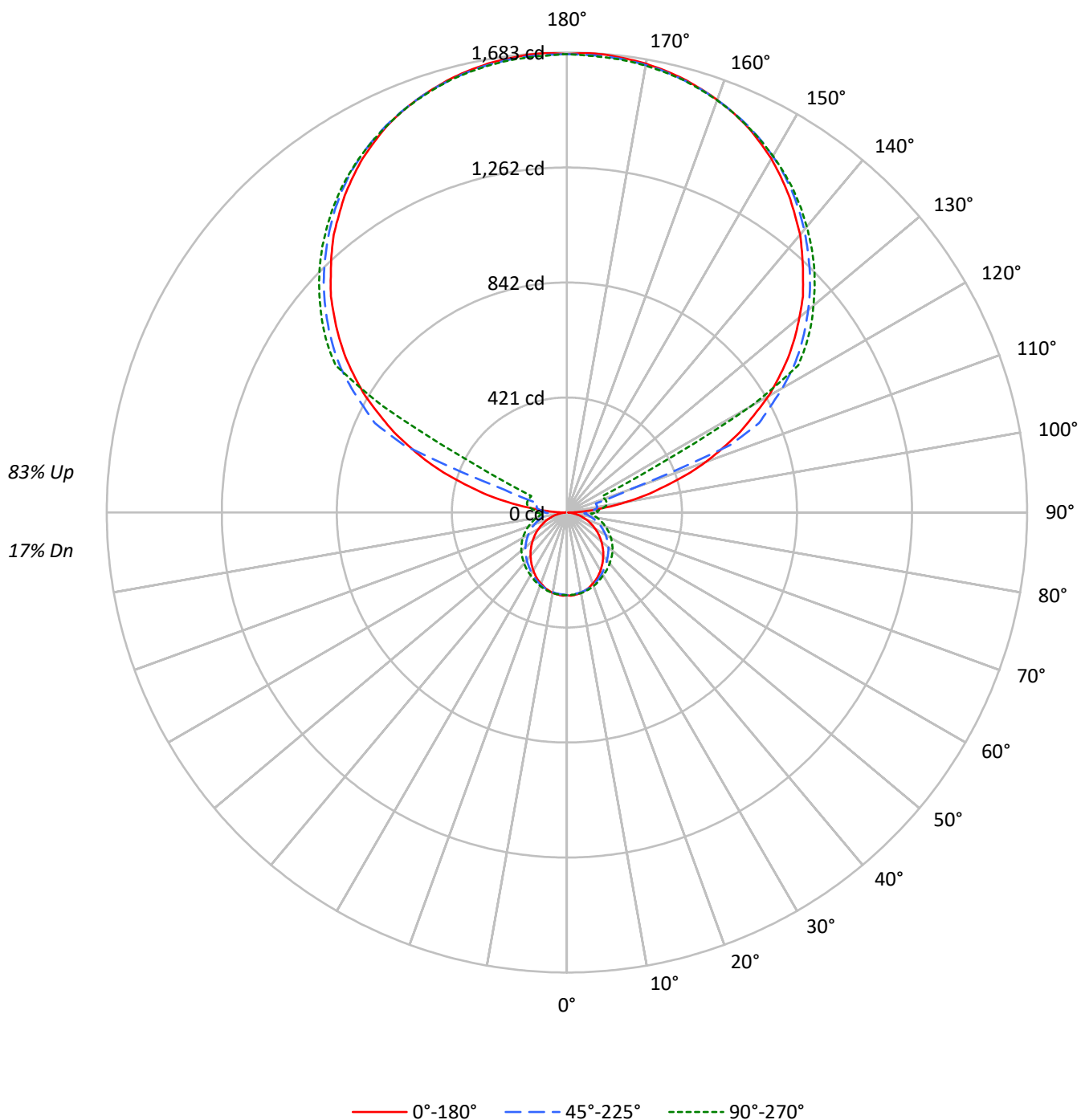
Lumens per Lamp: N/A
Luminaire Lumens: 6073.0 lumens
Efficiency: N/A
Efficacy: 110.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 55.1
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	99	99	99	99	87	87	87	87	65	65	65	45	45	45	26	26	26
1	90	86	82	78	79	75	72	69	56	54	52	38	37	36	22	21	21
2	82	74	68	63	71	65	60	56	49	45	43	33	31	29	19	18	17
3	74	65	58	52	65	57	51	47	43	39	35	29	27	25	17	15	14
4	68	57	50	44	59	51	44	39	38	33	30	26	23	21	15	13	12
5	62	51	43	37	54	45	38	33	33	29	25	23	20	18	13	12	10
6	57	45	37	32	50	40	33	29	30	25	22	21	18	15	12	10	9
7	52	41	33	28	46	36	29	25	27	22	19	19	16	13	11	9	8
8	48	37	29	24	42	32	26	22	24	20	17	17	14	12	10	8	7
9	45	33	26	21	39	29	23	19	22	18	15	15	13	10	9	7	6
10	42	30	23	19	37	27	21	17	20	16	13	14	11	9	8	7	6

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4787	4787	4787
5°	4809	4584	4558
10°	4777	4424	4360
15°	4709	4261	4158
20°	4624	4088	3965
25°	4541	3923	3791
30°	4423	3755	3618
35°	4303	3593	3491
40°	4177	3453	3366
45°	4058	3326	3256
50°	3931	3210	3147
55°	3797	3085	3037
60°	3632	2956	2921
65°	3459	2806	2787
70°	3265	2648	2645
75°	3015	2488	2509
80°	2627	2322	2367
85°	2232	2165	2248

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4058 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.7	0.5
10°-20°	82.2	1.4
20°-30°	124.6	2.1
30°-40°	151.7	2.5
40°-50°	163.2	2.7
50°-60°	158.5	2.6
60°-70°	138.4	2.3
70°-80°	106.6	1.8
80°-90°	74.3	1.2
90°-100°	104.5	1.7
100°-110°	242.1	4.0
110°-120°	570.4	9.4
120°-130°	919.9	15.1
130°-140°	968.7	16.0
140°-150°	896.1	14.8
150°-160°	719.6	11.8
160°-170°	463.7	7.6
170°-180°	159.6	2.6
0°-30°	235.5	3.9
0°-40°	387.2	6.4
0°-60°	709.0	11.7
0°-90°	1028.3	16.9
90°-120°	917.1	15.1
90°-150°	3701.7	61.0
90°-180°	5045.0	83.1
0°-180°	6073.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	302	302	302	302	302	
5°	303	302	299	302	302	29
15°	289	290	290	294	294	81
25°	263	266	270	275	277	121
35°	227	234	242	252	255	142
45°	186	198	213	227	231	143
55°	142	158	181	197	202	127
65°	97	119	145	163	168	97
75°	54	78	106	125	131	57
85°	16	43	71	89	96	17
90°	6	44	82	106	114	8
95°	82	63	98	120	124	96
105°	371	420	112	140	150	397
115°	700	725	775	226	144	688
125°	987	1003	1040	1060	1068	881
135°	1221	1240	1256	1277	1278	943
145°	1416	1415	1435	1446	1443	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°	302.4	302.4	302.4	302.4	302.4
2.5°	304.6	303.3	300.2	302.4	301.6
5°	303.3	302.0	299.4	302.0	301.6
7.5°	301.1	300.2	298.1	301.1	300.7
10°	298.5	297.6	296.3	299.8	299.4
12.5°	294.1	294.5	293.7	297.2	296.7
15°	289.3	290.2	290.2	294.1	293.7
17.5°	283.2	284.9	286.2	290.2	290.2
20°	277.0	279.2	281.0	285.8	285.8
22.5°	270.4	273.1	275.7	280.5	281.4
25°	263.0	266.1	270.0	275.3	276.6
27.5°	254.2	259.0	263.4	270.0	270.9
30°	245.5	251.2	256.9	263.9	265.2
32.5°	235.8	242.4	249.4	257.7	260.4
35°	226.6	234.1	242.4	252.0	255.1
37.5°	216.5	224.9	235.4	245.9	249.0
40°	206.4	216.1	227.9	239.3	243.3
42.5°	196.8	206.4	220.5	233.2	237.1
45°	185.8	197.7	213.0	226.6	231.0
47.5°	175.3	188.0	205.6	219.6	224.4
50°	164.4	178.0	197.7	212.6	217.4
52.5°	153.8	168.3	189.4	204.7	210.0
55°	142.5	158.2	181.0	196.8	202.5
57.5°	131.5	149.0	171.8	188.9	194.6
60°	119.7	138.5	163.5	180.1	186.3
62.5°	109.1	128.9	153.8	171.8	177.5
65°	97.3	118.8	144.6	162.6	168.3
67.5°	86.8	109.1	135.4	153.4	159.5
70°	75.4	98.2	125.4	144.2	149.5
72.5°	64.9	88.5	116.2	134.6	141.1
75°	53.9	78.5	106.5	125.4	131.1
77.5°	43.4	68.8	97.3	116.2	122.3
80°	32.9	59.6	88.1	106.5	112.6
82.5°	24.1	50.4	79.3	97.7	103.4
85°	15.8	43.0	71.0	89.4	95.6
87.5°	9.6	35.9	64.0	82.0	87.7
90°	5.6	44.4	82.2	105.7	113.5
92.5°	34.2	52.7	83.0	102.5	109.1
95°	82.4	62.9	97.7	120.5	124.5
97.5°	145.1	64.4	109.2	129.1	135.5
100°	217.9	67.8	113.0	138.9	146.2
102.5°	297.5	309.5	112.4	141.4	150.0
105°	371.1	420.2	111.7	140.4	150.1
107.5°	457.2	498.1	111.0	139.3	149.0
110°	539.3	573.5	244.3	137.0	146.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	617.0	645.8	645.3	136.4	144.9
115°	699.5	724.9	775.0	226.3	143.8
117.5°	770.6	798.3	837.4	677.1	363.6
120°	850.7	870.7	910.0	936.9	777.9
122.5°	918.6	938.5	979.0	998.1	1003.3
125°	987.4	1003.2	1040.2	1060.5	1068.1
127.5°	1050.5	1067.0	1097.1	1120.1	1125.3
130°	1109.9	1128.8	1151.4	1175.3	1177.6
132.5°	1170.6	1185.9	1205.8	1226.8	1229.1
135°	1221.1	1240.5	1255.8	1277.1	1278.2
137.5°	1274.4	1289.0	1303.3	1323.9	1323.2
140°	1326.6	1335.9	1350.2	1368.1	1364.6
142.5°	1370.3	1378.4	1394.2	1409.2	1405.3
145°	1416.0	1414.8	1435.4	1446.5	1442.7
147.5°	1456.1	1452.4	1473.0	1479.5	1476.1
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)