

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: P1029341

Luminaire Tested: S122DIW-B290D1440UB2750-4F0-XX-W2A-D1_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029341
REPORT IS A COMBINATION OF REPORTS P985582 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIW-B290D1440UB2750-4F0-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

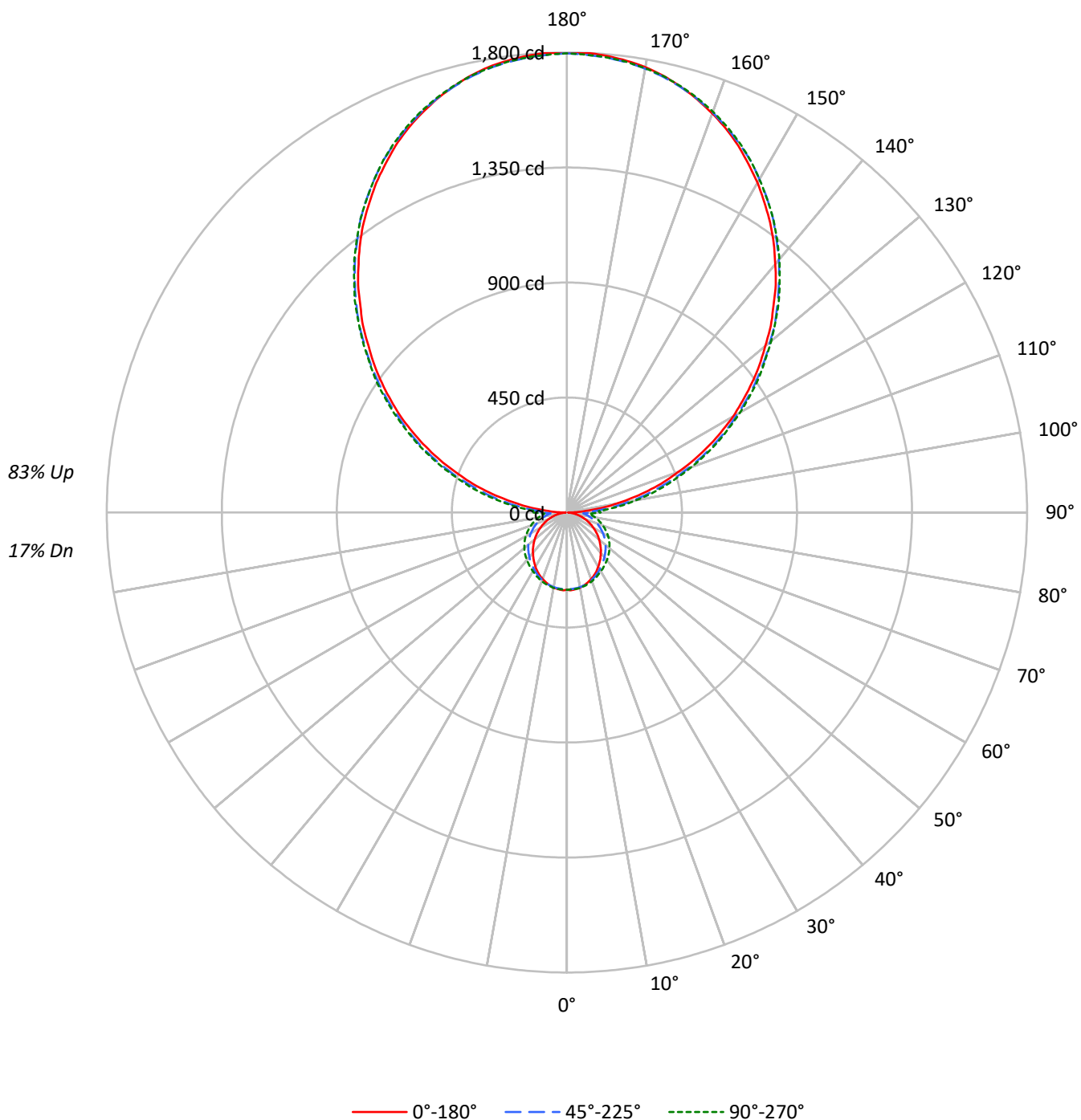
Lumens per Lamp: N/A
Luminaire Lumens: 6183.0 lumens
Efficiency: N/A
Efficacy: 94.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 65.2
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	44	44	44	26	26	26
1	90	85	82	78	79	75	72	69	56	54	52	38	37	36	22	21	20
2	82	74	68	63	71	65	60	56	49	45	42	33	31	29	19	18	17
3	74	65	58	52	65	57	51	47	43	39	35	29	27	24	16	15	14
4	68	57	50	44	59	50	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	11	10
6	57	45	37	32	50	40	33	29	30	25	22	20	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	12	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	1.3
20°-30°	124.6	2.0
30°-40°	151.7	2.5
40°-50°	163.2	2.6
50°-60°	158.5	2.6
60°-70°	138.4	2.2
70°-80°	106.6	1.7
80°-90°	76.5	1.2
90°-100°	160.4	2.6
100°-110°	389.3	6.3
110°-120°	628.4	10.2
120°-130°	808.5	13.1
130°-140°	898.2	14.5
140°-150°	876.3	14.2
150°-160°	734.3	11.9
160°-170°	487.0	7.9
170°-180°	170.2	2.8
0°-30°	235.5	3.8
0°-40°	387.2	6.3
0°-60°	709.0	11.5
0°-90°	1030.5	16.7
90°-120°	1178.1	19.1
90°-150°	3761.1	60.8
90°-180°	5153.0	83.3
0°-180°	6183.0	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	50	111	125	132	8
95°	82	118	147	164	166	91
105°	328	346	371	390	394	347
115°	608	622	639	650	651	602
125°	883	897	906	914	916	790
135°	1142	1159	1166	1174	1173	883
145°	1386	1397	1406	1410	1406	866
155°	1585	1589	1594	1601	1597	729
165°	1724	1723	1723	1733	1726	486
175°	1794	1789	1786	1797	1788	170
180°	1797	1797	1797	1797	1797	

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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°	5.9	49.5	111.0	125.4	132.3
92.5°	37.3	72.7	100.9	119.5	124.8
95°	82.4	118.1	147.4	164.1	166.3
97.5°	135.0	167.5	198.9	215.2	220.4
100°	195.7	224.0	253.1	269.3	272.6
102.5°	258.9	282.5	312.2	329.5	332.8
105°	328.2	345.5	371.3	389.6	394.5
107.5°	398.0	414.5	436.4	452.9	450.2
110°	464.3	482.1	503.6	517.6	517.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	537.1	553.2	571.8	581.3	583.1
115°	608.4	622.3	638.9	650.5	650.9
117.5°	679.1	694.8	705.6	714.2	714.1
120°	750.4	764.3	769.7	782.0	782.3
122.5°	815.6	831.3	839.9	847.1	848.1
125°	883.4	897.1	906.5	913.8	916.3
127.5°	950.2	966.3	972.2	977.0	976.5
130°	1012.3	1031.6	1037.7	1045.3	1042.7
132.5°	1082.1	1096.8	1104.9	1107.4	1106.3
135°	1142.2	1158.9	1166.4	1174.0	1173.0
137.5°	1209.0	1222.6	1227.9	1234.7	1231.7
140°	1268.1	1281.4	1289.8	1296.8	1293.4
142.5°	1328.8	1342.0	1346.6	1353.4	1349.5
145°	1386.0	1396.6	1405.7	1409.8	1406.0
147.5°	1437.5	1451.2	1457.3	1460.7	1456.0
150°	1490.6	1499.7	1505.8	1510.3	1505.8
152.5°	1537.6	1546.7	1554.3	1560.4	1554.3
155°	1584.6	1589.2	1593.7	1601.3	1596.8
157.5°	1625.6	1628.6	1631.6	1642.3	1634.7
160°	1662.0	1665.0	1666.5	1675.6	1669.6
162.5°	1695.3	1695.3	1696.9	1707.5	1699.9
165°	1724.1	1722.6	1722.6	1733.2	1725.7
167.5°	1749.9	1745.4	1745.4	1756.0	1748.4
170°	1769.6	1765.1	1763.6	1774.2	1765.1
172.5°	1783.3	1778.7	1777.2	1787.8	1778.7
175°	1793.9	1789.4	1786.3	1796.9	1787.8
177.5°	1800.0	1795.4	1792.4	1801.5	1792.4
180°	1796.9	1796.9	1796.9	1796.9	1796.9

(END OF REPORT)