

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: P1029346

Luminaire Tested: S122DIW-B290D1440UB2750-4F0-XX-W2A-D_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029346
REPORT IS A COMBINATION OF REPORTS P985592 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-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

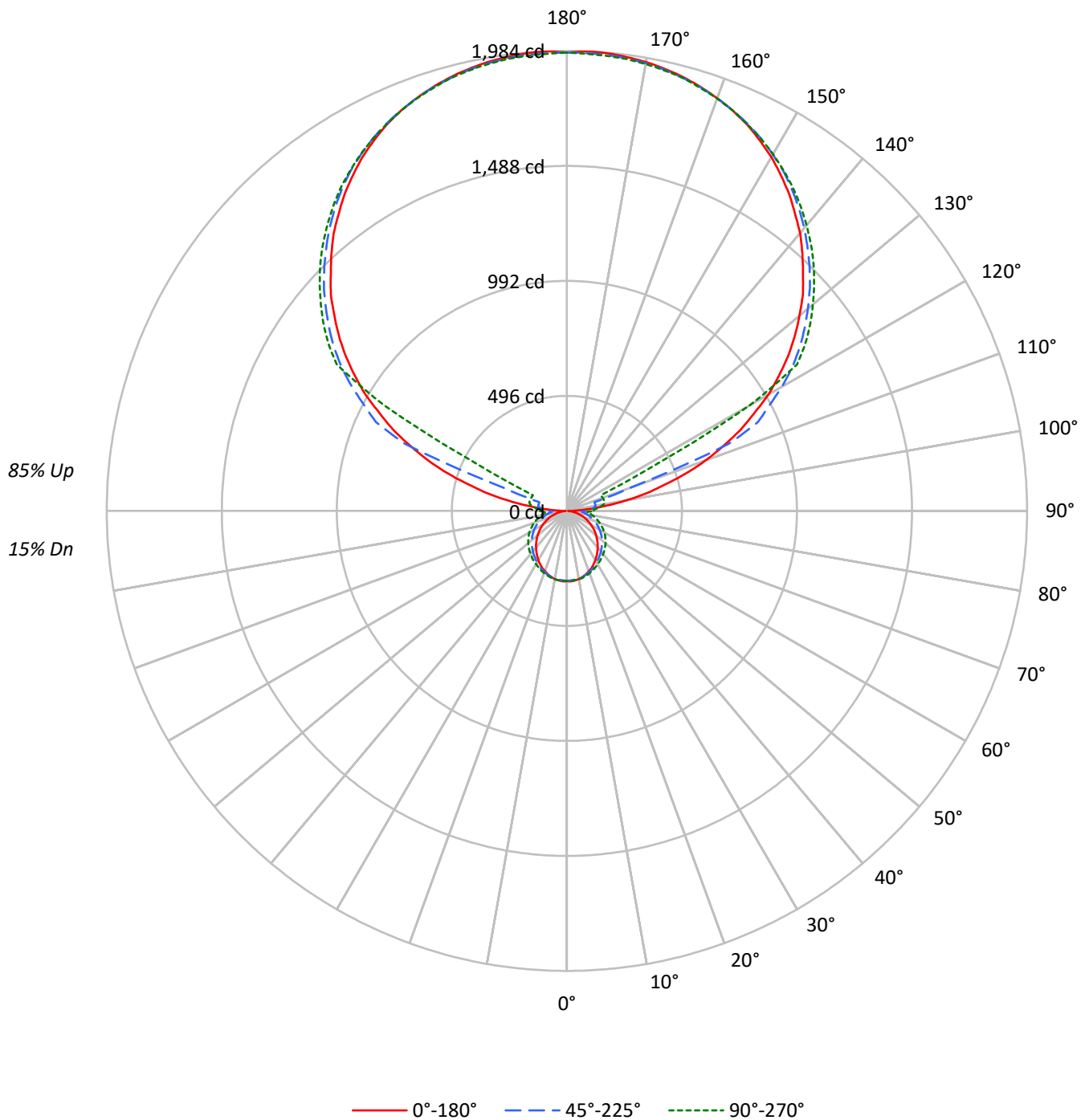
Lumens per Lamp: N/A
Luminaire Lumens: 6954.0 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 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			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	99	99	99	99	87	87	87	87	64	64	64	43	43	43	24	24	24	15		
1	89	85	81	78	78	75	71	69	55	53	51	37	36	35	20	20	19	12		
2	81	74	68	63	71	65	60	56	48	45	42	32	30	28	18	17	16	9		
3	74	65	58	52	64	57	51	46	42	38	35	28	26	24	15	14	13	8		
4	67	57	50	44	59	50	44	39	37	33	29	25	22	20	14	12	11	6		
5	62	51	43	37	54	44	38	33	33	28	25	22	19	17	12	11	10	6		
6	57	45	37	32	49	40	33	28	29	25	22	20	17	15	11	9	8	5		
7	52	40	33	28	45	36	29	25	26	22	19	18	15	13	10	8	7	4		
8	48	36	29	24	42	32	26	21	24	20	16	16	13	11	9	8	6	4		
9	45	33	26	21	39	29	23	19	22	17	14	15	12	10	8	7	6	3		
10	42	30	23	19	36	27	21	17	20	16	13	14	11	9	8	6	5	3		

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	0.4
10°-20°	82.2	1.2
20°-30°	124.6	1.8
30°-40°	151.7	2.2
40°-50°	163.2	2.3
50°-60°	158.5	2.3
60°-70°	138.4	2.0
70°-80°	106.6	1.5
80°-90°	74.8	1.1
90°-100°	114.5	1.6
100°-110°	279.0	4.0
110°-120°	668.3	9.6
120°-130°	1082.3	15.6
130°-140°	1141.2	16.4
140°-150°	1056.4	15.2
150°-160°	848.5	12.2
160°-170°	546.8	7.9
170°-180°	188.2	2.7
0°-30°	235.5	3.4
0°-40°	387.2	5.6
0°-60°	709.0	10.2
0°-90°	1028.8	14.8
90°-120°	1061.8	15.3
90°-150°	4341.7	62.4
90°-180°	5925.0	85.2
0°-180°	6954.0	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	47	86	111	119	8
95°	96	70	106	130	134	113
105°	437	493	125	156	167	467
115°	824	854	909	260	162	811
125°	1164	1183	1224	1246	1254	1038
135°	1440	1463	1480	1503	1504	1112
145°	1670	1668	1692	1705	1700	1044
155°	1838	1826	1843	1851	1840	847
165°	1937	1929	1933	1943	1933	547
175°	1982	1972	1974	1984	1970	189
180°	1977	1977	1977	1977	1977	

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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°	5.8	47.0	86.5	111.2	119.3
92.5°	39.7	57.2	88.2	108.2	114.9
95°	96.5	69.9	106.2	130.1	133.8
97.5°	170.5	72.0	120.3	140.9	147.5
100°	256.3	76.5	125.3	153.0	160.8
102.5°	350.3	361.9	125.2	156.6	165.8
105°	437.1	492.8	125.0	156.0	166.6
107.5°	538.7	585.0	124.7	155.4	166.0
110°	635.6	674.3	282.4	153.3	163.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	727.2	759.9	755.7	153.2	162.3
115°	824.5	853.6	909.0	259.7	161.6
117.5°	908.4	940.5	983.2	791.8	421.4
120°	1002.8	1026.0	1069.3	1098.8	910.4
122.5°	1082.9	1106.3	1151.1	1171.5	1176.9
125°	1164.1	1182.7	1223.8	1245.7	1253.9
127.5°	1238.5	1258.0	1291.3	1316.5	1322.0
130°	1308.6	1330.9	1355.9	1382.2	1384.3
132.5°	1380.1	1398.2	1420.5	1443.5	1445.6
135°	1439.7	1462.6	1479.8	1503.4	1504.0
137.5°	1502.6	1519.8	1536.3	1559.0	1557.7
140°	1564.2	1575.2	1591.8	1611.7	1607.2
142.5°	1615.7	1625.3	1643.9	1660.6	1655.7
145°	1669.6	1668.2	1692.5	1705.1	1700.2
147.5°	1716.8	1712.5	1736.9	1744.4	1740.1
150°	1762.6	1752.6	1775.5	1784.1	1776.9
152.5°	1801.2	1789.8	1811.3	1819.8	1809.8
155°	1838.4	1825.6	1842.7	1851.3	1839.9
157.5°	1868.5	1857.0	1869.9	1879.9	1868.5
160°	1894.2	1885.7	1894.2	1902.8	1892.8
162.5°	1917.1	1908.5	1915.7	1925.7	1912.8
165°	1937.2	1928.6	1932.9	1942.9	1932.9
167.5°	1952.9	1944.3	1948.6	1958.6	1945.7
170°	1965.8	1957.2	1960.1	1970.1	1957.2
172.5°	1974.4	1965.8	1968.6	1978.7	1965.8
175°	1981.5	1971.5	1974.4	1984.4	1970.1
177.5°	1984.4	1974.4	1975.8	1985.8	1972.9
180°	1977.2	1977.2	1977.2	1977.2	1977.2

(END OF REPORT)