

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: P1029342

Luminaire Tested: S122DIW-B290D1440UB2750-4F0-XX-W2A-D1_3000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029342
REPORT IS A COMBINATION OF REPORTS P985583 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_3000K
Description: Define 2 Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

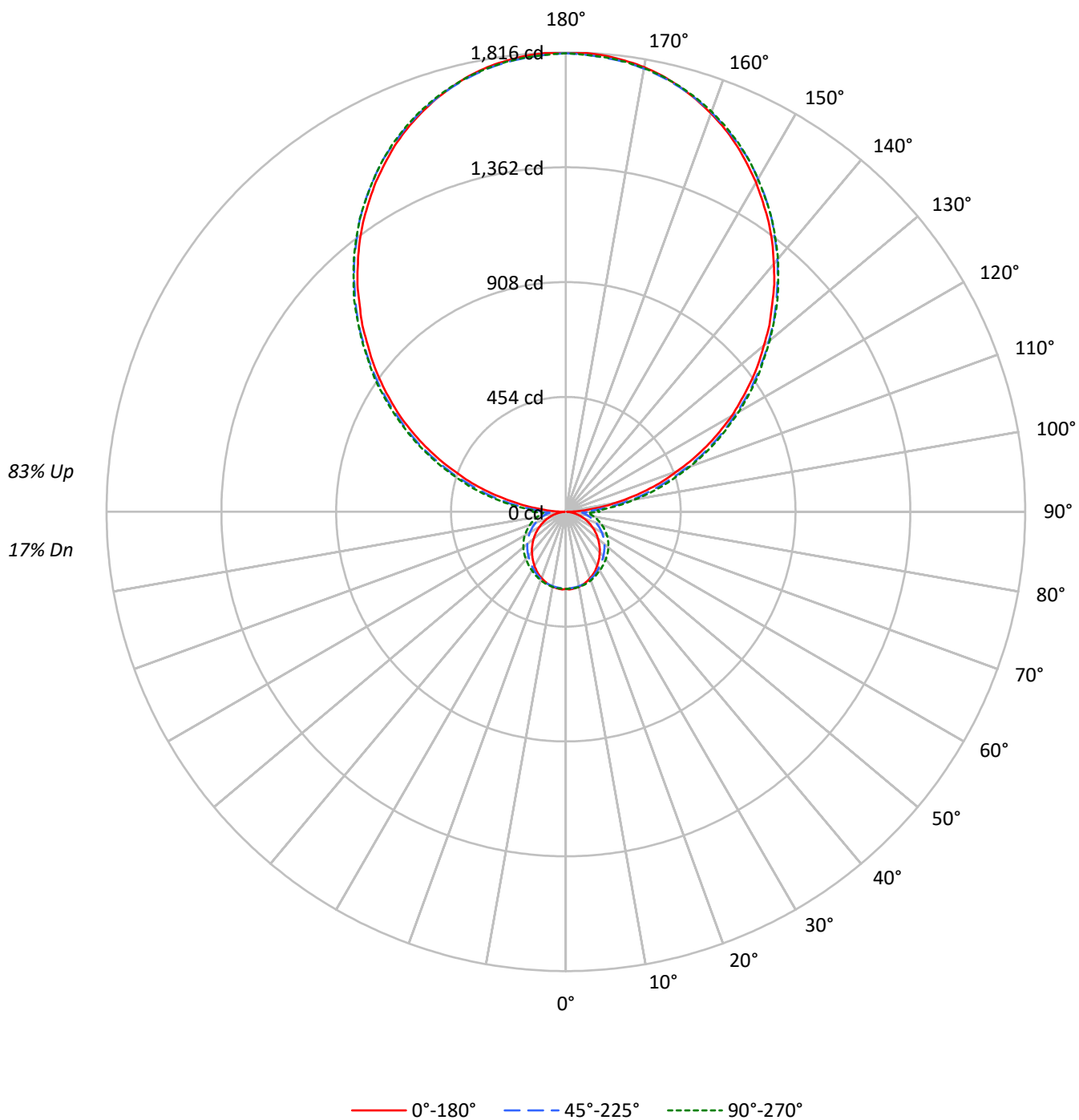
Lumens per Lamp: N/A
Luminaire Lumens: 6237.0 lumens
Efficiency: N/A
Efficacy: 95.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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
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	65	65	65	44	44	44	26	26	26	17		
1	90	85	82	78	79	75	72	69	56	54	52	38	37	36	22	21	20	13		
2	81	74	68	63	71	65	60	56	49	45	42	33	31	29	19	18	17	10		
3	74	65	58	52	65	57	51	47	43	39	35	29	27	24	16	15	14	9		
4	68	57	50	44	59	50	44	39	38	33	30	26	23	21	15	13	12	7		
5	62	51	43	37	54	45	38	33	33	29	25	23	20	18	13	11	10	6		
6	57	45	37	32	50	40	33	29	30	25	22	20	18	15	12	10	9	5		
7	52	41	33	28	46	36	29	25	27	22	19	19	16	13	11	9	8	5		
8	48	37	29	24	42	32	26	22	24	20	17	17	14	12	10	8	7	4		
9	45	33	26	21	39	29	23	19	22	18	15	15	12	10	9	7	6	4		
10	42	30	23	19	37	27	21	17	20	16	13	14	11	9	8	7	6	3		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4830	4830	4830
5°	4850	4623	4597
10°	4818	4463	4398
15°	4750	4297	4193
20°	4664	4123	4000
25°	4580	3956	3824
30°	4461	3788	3650
35°	4341	3624	3522
40°	4214	3483	3395
45°	4095	3356	3284
50°	3965	3237	3175
55°	3829	3112	3064
60°	3663	2981	2947
65°	3487	2832	2812
70°	3291	2670	2668
75°	3043	2509	2530
80°	2651	2343	2388
85°	2246	2183	2267

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4095 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.9	0.5
10°-20°	82.9	1.3
20°-30°	125.7	2.0
30°-40°	153.0	2.5
40°-50°	164.7	2.6
50°-60°	159.9	2.6
60°-70°	139.6	2.2
70°-80°	107.5	1.7
80°-90°	77.1	1.2
90°-100°	161.8	2.6
100°-110°	392.7	6.3
110°-120°	633.9	10.2
120°-130°	815.5	13.1
130°-140°	906.0	14.5
140°-150°	884.0	14.2
150°-160°	740.7	11.9
160°-170°	491.2	7.9
170°-180°	171.7	2.8
0°-30°	237.5	3.8
0°-40°	390.6	6.3
0°-60°	715.1	11.5
0°-90°	1039.4	16.7
90°-120°	1188.4	19.1
90°-150°	3794.0	60.8
90°-180°	5198.0	83.3
0°-180°	6237.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	305	305	305	305	305	
5°	306	305	302	305	304	29
15°	292	293	293	297	296	82
25°	265	268	272	278	279	122
35°	229	236	244	254	257	143
45°	188	199	215	229	233	145
55°	144	160	183	198	204	129
65°	98	120	146	164	170	98
75°	54	79	107	126	132	58
85°	16	43	72	90	96	17
90°	6	50	112	126	133	8
95°	83	119	149	166	168	92
105°	331	348	374	393	398	350
115°	614	628	644	656	657	607
125°	891	905	914	922	924	797
135°	1152	1169	1177	1184	1183	891
145°	1398	1409	1418	1422	1418	874
155°	1598	1603	1608	1615	1611	736
165°	1739	1738	1738	1748	1741	491
175°	1810	1805	1802	1813	1804	172
180°	1813	1813	1813	1813	1813	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	305.1	305.1	305.1	305.1	305.1
2.5°	307.3	305.9	302.8	305.1	304.2
5°	305.9	304.6	302.0	304.6	304.2
7.5°	303.7	302.8	300.6	303.7	303.3
10°	301.1	300.2	298.9	302.4	302.0
12.5°	296.7	297.1	296.2	299.8	299.3
15°	291.8	292.7	292.7	296.7	296.2
17.5°	285.6	287.4	288.7	292.7	292.7
20°	279.4	281.6	283.4	288.3	288.3
22.5°	272.8	275.4	278.1	283.0	283.8
25°	265.3	268.4	272.3	277.6	279.0
27.5°	256.4	261.3	265.7	272.3	273.2
30°	247.6	253.3	259.1	266.2	267.5
32.5°	237.9	244.5	251.6	260.0	262.6
35°	228.6	236.1	244.5	254.2	257.3
37.5°	218.4	226.8	237.4	248.0	251.1
40°	208.2	218.0	229.9	241.4	245.4
42.5°	198.5	208.2	222.4	235.2	239.2
45°	187.5	199.4	214.9	228.6	233.0
47.5°	176.8	189.7	207.4	221.5	226.4
50°	165.8	179.5	199.4	214.4	219.3
52.5°	155.2	169.8	191.0	206.5	211.8
55°	143.7	159.6	182.6	198.5	204.3
57.5°	132.6	150.3	173.3	190.6	196.3
60°	120.7	139.7	164.9	181.7	187.9
62.5°	110.1	130.0	155.2	173.3	179.1
65°	98.1	119.8	145.9	164.0	169.8
67.5°	87.5	110.1	136.6	154.7	160.9
70°	76.0	99.0	126.4	145.5	150.8
72.5°	65.4	89.3	117.2	135.7	142.4
75°	54.4	79.1	107.4	126.4	132.2
77.5°	43.8	69.4	98.1	117.2	123.4
80°	33.2	60.1	88.9	107.4	113.6
82.5°	24.3	50.8	80.0	98.6	104.3
85°	15.9	43.3	71.6	90.2	96.4
87.5°	9.7	36.3	64.5	82.7	88.4
90°	5.9	50.0	111.9	126.5	133.3
92.5°	37.7	73.3	101.8	120.5	125.8
95°	83.0	119.1	148.7	165.5	167.7
97.5°	136.2	168.9	200.7	217.1	222.4
100°	197.4	226.0	255.3	271.7	275.0
102.5°	261.2	284.9	314.9	332.3	335.7
105°	331.1	348.5	374.5	393.1	398.0
107.5°	401.4	418.2	440.3	456.9	454.0
110°	468.3	486.3	508.0	522.1	522.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	541.8	558.0	576.8	586.3	588.2
115°	613.7	627.6	644.5	656.3	656.6
117.5°	685.1	700.9	711.8	720.5	720.3
120°	757.0	771.0	776.5	788.9	789.1
122.5°	822.7	838.5	847.2	854.6	855.4
125°	891.2	904.9	914.4	921.9	924.2
127.5°	958.5	974.8	980.7	985.6	985.0
130°	1021.2	1040.6	1046.8	1054.4	1051.8
132.5°	1091.6	1106.3	1114.6	1117.0	1116.0
135°	1152.2	1169.1	1176.6	1184.3	1183.3
137.5°	1219.5	1233.3	1238.7	1245.5	1242.4
140°	1279.2	1292.6	1301.1	1308.2	1304.7
142.5°	1340.4	1353.8	1358.3	1365.2	1361.3
145°	1398.1	1408.8	1418.0	1422.2	1418.3
147.5°	1450.1	1463.9	1470.0	1473.5	1468.8
150°	1503.7	1512.8	1519.0	1523.5	1519.0
152.5°	1551.1	1560.3	1567.9	1574.0	1567.9
155°	1598.5	1603.1	1607.7	1615.3	1610.7
157.5°	1639.8	1642.9	1645.9	1656.6	1649.0
160°	1676.5	1679.6	1681.1	1690.3	1684.2
162.5°	1710.2	1710.2	1711.7	1722.4	1714.8
165°	1739.2	1737.7	1737.7	1748.4	1740.8
167.5°	1765.2	1760.6	1760.6	1771.4	1763.7
170°	1785.1	1780.5	1779.0	1789.7	1780.5
172.5°	1798.9	1794.3	1792.8	1803.5	1794.3
175°	1809.6	1805.0	1801.9	1812.7	1803.5
177.5°	1815.7	1811.1	1808.1	1817.2	1808.1
180°	1812.7	1812.7	1812.7	1812.7	1812.7

(END OF REPORT)