

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: P1029345

Luminaire Tested: S122DIW-B290D1440UB2750-4F0-XX-W2A-D1_5000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029345
REPORT IS A COMBINATION OF REPORTS P985586 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_5000K
Description: Define 2 Direct/Indirect Wall Mount with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

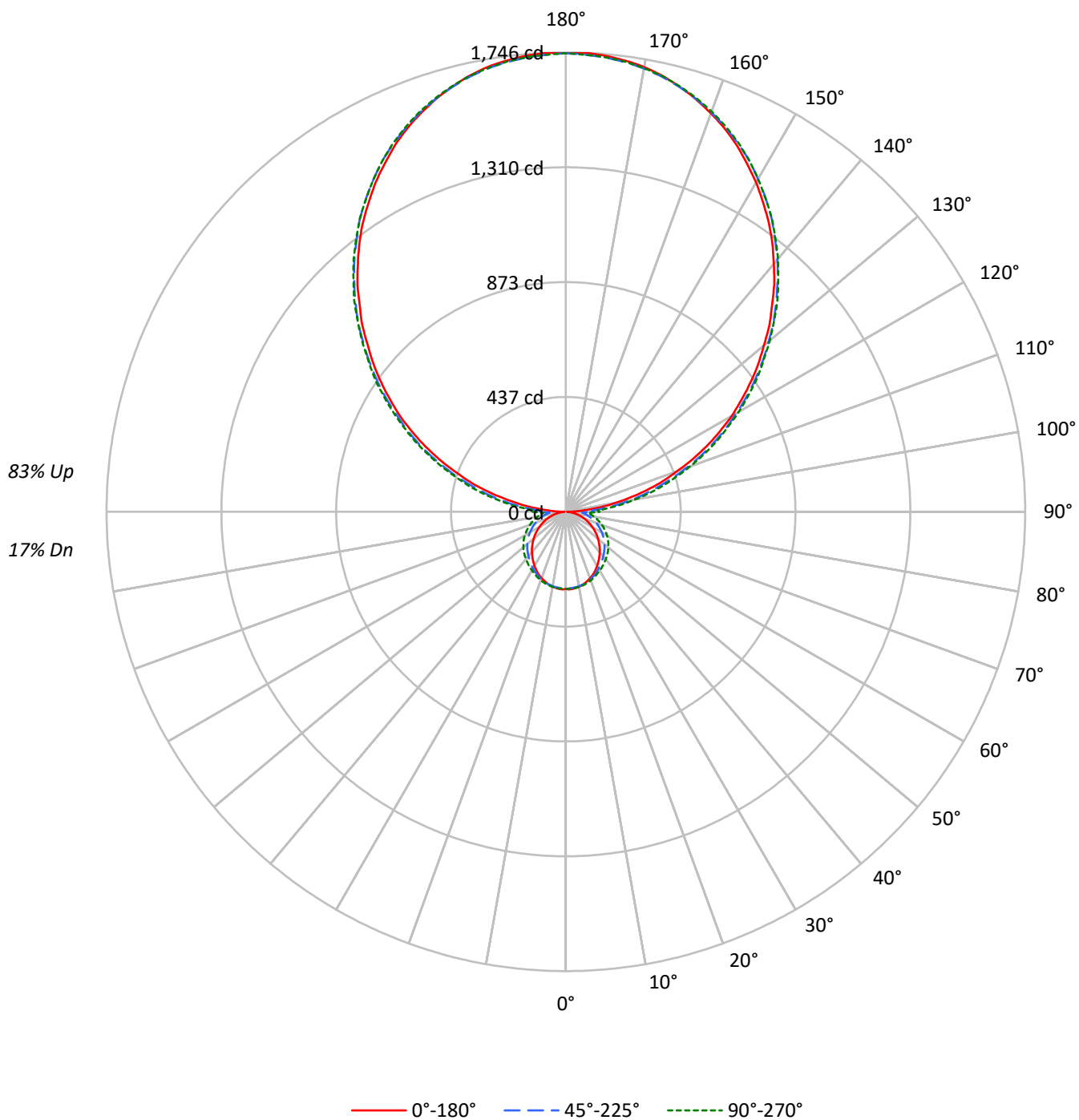
Lumens per Lamp: N/A
Luminaire Lumens: 5997.1 lumens
Efficiency: N/A
Efficacy: 92.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	81	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°	4643	4643	4643
5°	4663	4444	4419
10°	4631	4290	4228
15°	4566	4131	4032
20°	4484	3963	3845
25°	4402	3803	3676
30°	4288	3641	3508
35°	4172	3483	3386
40°	4052	3348	3264
45°	3936	3226	3157
50°	3812	3112	3052
55°	3680	2991	2946
60°	3520	2866	2832
65°	3356	2723	2703
70°	3166	2568	2563
75°	2926	2413	2433
80°	2547	2250	2296
85°	2161	2101	2180

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3936 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.8	0.5
10°-20°	79.7	1.3
20°-30°	120.8	2.0
30°-40°	147.1	2.5
40°-50°	158.3	2.6
50°-60°	153.7	2.6
60°-70°	134.3	2.2
70°-80°	103.3	1.7
80°-90°	74.2	1.2
90°-100°	155.6	2.6
100°-110°	377.6	6.3
110°-120°	609.5	10.2
120°-130°	784.2	13.1
130°-140°	871.2	14.5
140°-150°	850.0	14.2
150°-160°	712.2	11.9
160°-170°	472.4	7.9
170°-180°	165.1	2.8
0°-30°	228.3	3.8
0°-40°	375.5	6.3
0°-60°	687.5	11.5
0°-90°	999.2	16.7
90°-120°	1142.8	19.1
90°-150°	3648.2	60.8
90°-180°	4998.0	83.3
0°-180°	5997.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	293	293	293	293	293	
5°	294	293	290	293	292	28
15°	280	281	281	285	285	79
25°	255	258	262	267	268	117
35°	220	227	235	244	247	137
45°	180	192	207	220	224	139
55°	138	153	176	191	196	124
65°	94	115	140	158	163	94
75°	52	76	103	122	127	55
85°	15	42	69	87	93	16
90°	6	48	108	122	128	8
95°	80	115	143	159	161	88
105°	318	335	360	378	383	336
115°	590	604	620	631	631	584
125°	857	870	879	886	889	766
135°	1108	1124	1131	1139	1138	856
145°	1344	1355	1364	1368	1364	840
155°	1537	1542	1546	1553	1549	708
165°	1672	1671	1671	1681	1674	472
175°	1740	1736	1733	1743	1734	165
180°	1743	1743	1743	1743	1743	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	293.3	293.3	293.3	293.3	293.3
2.5°	295.4	294.1	291.1	293.3	292.4
5°	294.1	292.8	290.3	292.8	292.4
7.5°	292.0	291.1	289.0	292.0	291.6
10°	289.4	288.6	287.3	290.7	290.3
12.5°	285.2	285.6	284.8	288.2	287.7
15°	280.5	281.4	281.4	285.2	284.8
17.5°	274.6	276.3	277.5	281.4	281.4
20°	268.6	270.7	272.4	277.1	277.1
22.5°	262.2	264.8	267.3	272.0	272.9
25°	255.0	258.0	261.8	266.9	268.2
27.5°	246.5	251.2	255.4	261.8	262.7
30°	238.0	243.5	249.1	255.9	257.1
32.5°	228.7	235.0	241.8	249.9	252.5
35°	219.7	227.0	235.0	244.4	247.4
37.5°	210.0	218.0	228.2	238.4	241.4
40°	200.2	209.5	221.0	232.1	235.9
42.5°	190.8	200.2	213.8	226.1	229.9
45°	180.2	191.7	206.6	219.7	224.0
47.5°	170.0	182.3	199.3	212.9	217.6
50°	159.4	172.6	191.7	206.1	210.8
52.5°	149.2	163.2	183.6	198.5	203.6
55°	138.1	153.4	175.5	190.8	196.4
57.5°	127.5	144.5	166.6	183.2	188.7
60°	116.0	134.3	158.5	174.7	180.6
62.5°	105.8	125.0	149.2	166.6	172.1
65°	94.4	115.2	140.3	157.7	163.2
67.5°	84.2	105.8	131.3	148.8	154.7
70°	73.1	95.2	121.6	139.8	144.9
72.5°	62.9	85.9	112.6	130.5	136.9
75°	52.3	76.1	103.3	121.6	127.1
77.5°	42.1	66.7	94.4	112.6	118.6
80°	31.9	57.8	85.4	103.3	109.2
82.5°	23.4	48.9	76.9	94.8	100.3
85°	15.3	41.7	68.9	86.7	92.7
87.5°	9.4	34.9	62.1	79.5	85.0
90°	5.8	48.0	107.6	121.6	128.2
92.5°	36.2	70.5	97.9	116.0	121.1
95°	79.9	114.6	143.0	159.1	161.3
97.5°	131.0	162.5	193.0	208.7	213.8
100°	189.8	217.3	245.5	261.2	264.4
102.5°	251.2	274.0	302.8	319.6	322.8
105°	318.3	335.1	360.2	377.9	382.6
107.5°	386.0	402.1	423.4	439.3	436.6
110°	450.3	467.6	488.4	502.0	502.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	520.9	536.5	554.7	563.9	565.5
115°	590.0	603.6	619.7	631.1	631.2
117.5°	658.8	673.9	684.4	692.8	692.6
120°	727.9	741.4	746.6	758.5	758.8
122.5°	791.2	806.3	814.6	821.7	822.6
125°	856.9	870.2	879.4	886.4	888.8
127.5°	921.7	937.3	943.0	947.7	947.2
130°	982.0	1000.6	1006.6	1013.9	1011.4
132.5°	1049.6	1063.8	1071.7	1074.2	1073.1
135°	1108.0	1124.1	1131.4	1138.8	1137.8
137.5°	1172.7	1185.9	1191.1	1197.6	1194.7
140°	1230.0	1242.9	1251.1	1257.9	1254.6
142.5°	1288.9	1301.7	1306.1	1312.7	1308.9
145°	1344.4	1354.7	1363.5	1367.6	1363.8
147.5°	1394.4	1407.6	1413.5	1416.8	1412.3
150°	1445.9	1454.7	1460.6	1465.0	1460.6
152.5°	1491.5	1500.3	1507.6	1513.5	1507.6
155°	1537.1	1541.5	1545.9	1553.2	1548.8
157.5°	1576.8	1579.7	1582.7	1593.0	1585.6
160°	1612.1	1615.0	1616.5	1625.3	1619.4
162.5°	1644.4	1644.4	1645.9	1656.2	1648.8
165°	1672.4	1670.9	1670.9	1681.2	1673.8
167.5°	1697.4	1693.0	1693.0	1703.3	1695.9
170°	1716.5	1712.1	1710.6	1720.9	1712.1
172.5°	1729.7	1725.3	1723.9	1734.2	1725.3
175°	1740.0	1735.6	1732.7	1743.0	1734.2
177.5°	1745.9	1741.5	1738.6	1747.4	1738.6
180°	1743.0	1743.0	1743.0	1743.0	1743.0

(END OF REPORT)