

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: P1029436

Luminaire Tested: S122DIW-B290D970UB2750-4F0-XX-W2A-D_3000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029436
REPORT IS A COMBINATION OF REPORTS P985863 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIW-B290D970UB2750-4F0-XX-W2A-D_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

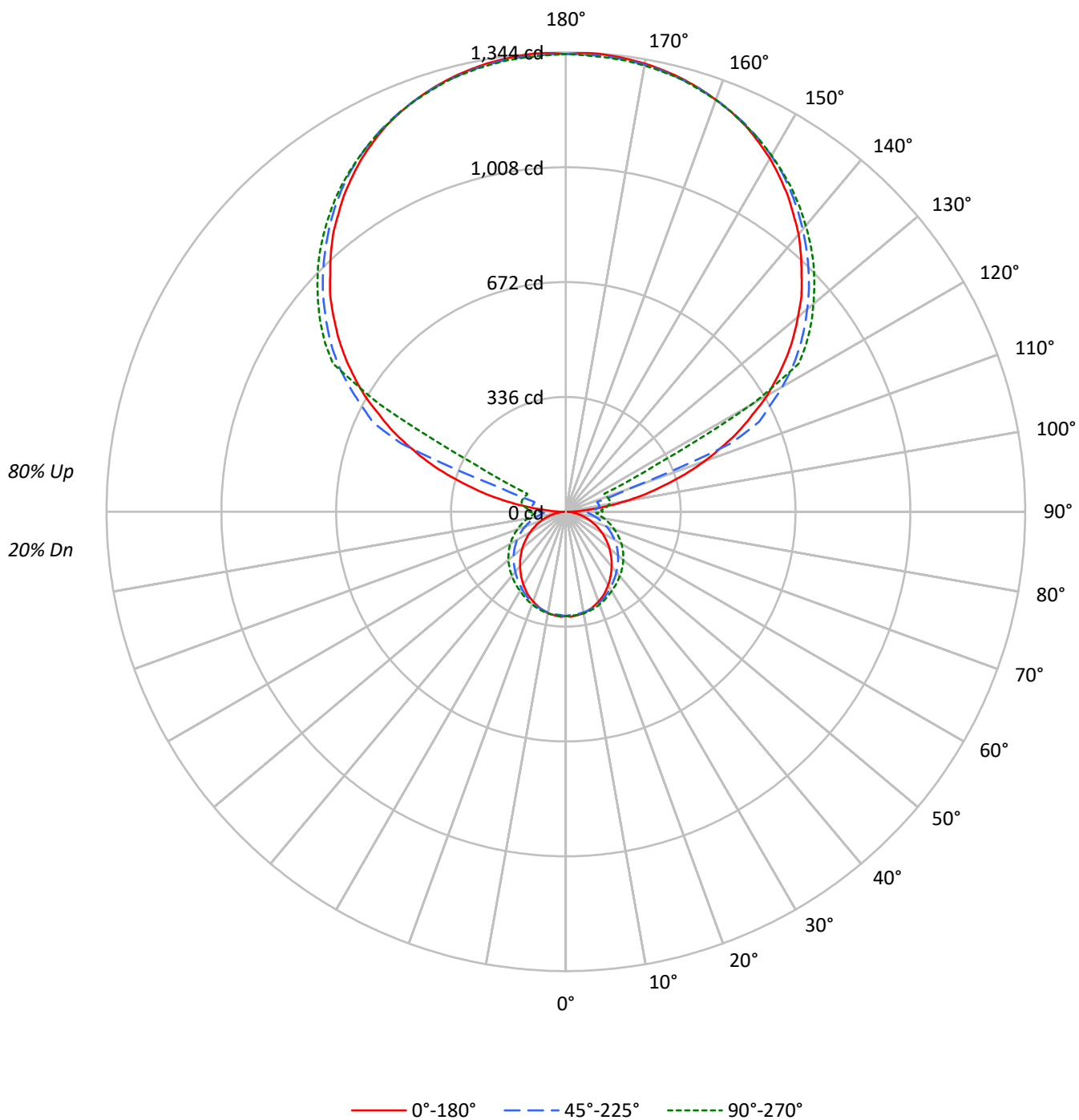
Lumens per Lamp: N/A
Luminaire Lumens: 5093.0 lumens
Efficiency: N/A
Efficacy: 114.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 44.5
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
RCR																	
0	100	100	100	100	88	88	88	88	67	67	67		47	47	47		29
1	91	86	82	79	80	76	73	70	57	55	53		40	39	38		24
2	82	75	69	64	72	66	61	57	50	47	44		35	33	31		21
3	75	65	58	53	66	58	52	47	44	40	36		31	28	26		19
4	68	58	50	44	60	51	45	40	39	34	31		27	24	22		16
5	62	51	43	37	55	45	39	34	34	30	26		24	21	19		15
6	57	46	38	32	50	40	34	29	31	26	22		22	19	16		13
7	53	41	33	28	46	36	30	25	28	23	20		20	16	14		12
8	49	37	29	24	43	33	26	22	25	20	17		18	15	12		11
9	45	33	26	21	40	30	24	19	23	18	15		16	13	11		10
10	42	30	24	19	37	27	21	17	21	16	13		15	12	10		9

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	0.6
10°-20°	82.9	1.6
20°-30°	125.7	2.5
30°-40°	153.0	3.0
40°-50°	164.7	3.2
50°-60°	159.9	3.1
60°-70°	139.6	2.7
70°-80°	107.5	2.1
80°-90°	74.3	1.5
90°-100°	93.8	1.8
100°-110°	200.9	3.9
110°-120°	460.6	9.0
120°-130°	737.6	14.5
130°-140°	774.9	15.2
140°-150°	715.9	14.1
150°-160°	574.8	11.3
160°-170°	370.4	7.3
170°-180°	127.5	2.5
0°-30°	237.5	4.7
0°-40°	390.6	7.7
0°-60°	715.1	14.0
0°-90°	1036.6	20.4
90°-120°	755.3	14.8
90°-150°	2983.7	58.6
90°-180°	4056.0	79.6
0°-180°	5093.0	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°	5	42	78	100	108	7
95°	66	55	89	110	115	77
105°	297	339	97	123	132	317
115°	559	580	624	189	124	550
125°	789	801	834	853	860	704
135°	975	991	1004	1023	1025	754
145°	1131	1130	1146	1156	1153	707
155°	1245	1237	1248	1254	1246	574
165°	1312	1306	1309	1316	1309	371
175°	1342	1336	1338	1344	1335	128
180°	1339	1339	1339	1339	1339	

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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°	5.4	41.7	77.8	100.2	107.5
92.5°	28.2	47.8	77.7	96.8	103.1
95°	66.5	55.3	88.6	110.2	114.6
97.5°	116.5	56.0	97.1	116.4	122.7
100°	174.6	58.3	99.4	123.6	130.3
102.5°	238.2	250.8	98.3	124.8	132.6
105°	296.8	338.7	97.1	123.3	132.1
107.5°	365.6	400.5	96.0	121.7	130.4
110°	431.1	460.3	201.9	119.1	127.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	493.2	517.6	521.5	117.9	125.7
115°	559.1	580.4	624.5	189.1	124.2
117.5°	615.8	638.7	673.7	548.4	298.9
120°	679.7	696.1	731.2	755.2	629.2
122.5°	734.0	750.0	785.7	803.5	808.4
125°	788.8	801.4	834.0	852.7	859.5
127.5°	839.2	852.3	878.8	899.5	904.5
130°	886.7	901.7	921.7	943.0	945.6
132.5°	935.2	947.3	964.6	983.5	986.1
135°	975.4	990.9	1004.1	1023.0	1024.7
137.5°	1018.0	1029.7	1041.7	1059.7	1059.8
140°	1059.7	1067.1	1078.6	1094.4	1092.2
142.5°	1094.6	1101.0	1113.6	1126.6	1124.0
145°	1131.0	1130.1	1146.5	1156.0	1153.4
147.5°	1163.0	1160.1	1176.6	1181.8	1179.3
150°	1194.0	1187.2	1202.7	1208.6	1203.7
152.5°	1220.2	1212.4	1227.0	1232.8	1226.0
155°	1245.4	1236.7	1248.3	1254.1	1246.4
157.5°	1265.7	1258.0	1266.7	1273.5	1265.7
160°	1283.2	1277.4	1283.2	1289.0	1282.2
162.5°	1298.7	1292.9	1297.7	1304.5	1295.8
165°	1312.3	1306.4	1309.4	1316.1	1309.4
167.5°	1322.9	1317.1	1320.0	1326.8	1318.1
170°	1331.6	1325.8	1327.8	1334.6	1325.8
172.5°	1337.5	1331.6	1333.6	1340.4	1331.6
175°	1342.3	1335.5	1337.5	1344.2	1334.6
177.5°	1344.2	1337.5	1338.4	1345.2	1336.5
180°	1339.4	1339.4	1339.4	1339.4	1339.4

(END OF REPORT)