

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: P1029312

Luminaire Tested: S122DIW-B290D1240UB2750-4F0-XX-W2A-D1_3000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029312
REPORT IS A COMBINATION OF REPORTS P985493 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIW-B290D1240UB2750-4F0-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

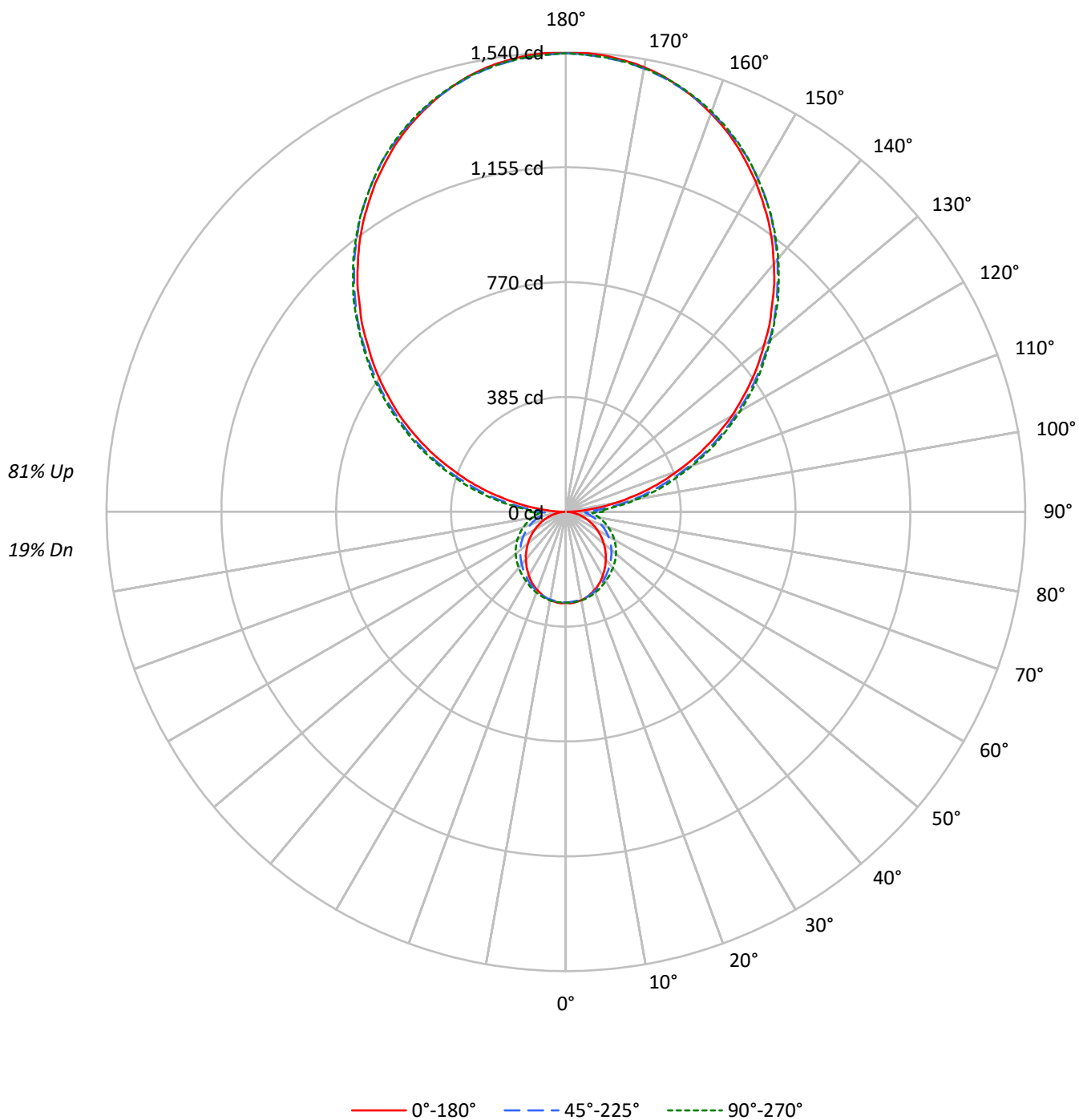
Lumens per Lamp: N/A
Luminaire Lumens: 5466.0 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 55.1
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	100	100	100	100	88	88	88	88	66	66	66	46	46	46	28	28	28	19		
1	90	86	82	78	79	76	73	70	57	55	53	39	38	37	23	23	22	15		
2	82	75	69	63	72	66	61	57	49	46	43	34	32	30	20	19	18	12		
3	74	65	58	52	65	58	52	47	43	39	36	30	28	25	18	16	15	10		
4	68	57	50	44	60	51	44	39	38	34	30	27	24	21	16	14	13	8		
5	62	51	43	37	54	45	38	33	34	29	26	24	21	18	14	12	11	7		
6	57	45	38	32	50	40	34	29	30	26	22	21	18	16	13	11	10	6		
7	53	41	33	28	46	36	30	25	27	23	19	19	16	14	12	10	8	5		
8	49	37	29	24	43	33	26	22	25	20	17	17	14	12	11	9	7	5		
9	45	33	26	21	40	30	23	19	23	18	15	16	13	11	10	8	7	4		
10	42	30	23	19	37	27	21	17	21	16	13	15	12	10	9	7	6	4		

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	1.5
20°-30°	125.7	2.3
30°-40°	153.0	2.8
40°-50°	164.7	3.0
50°-60°	159.9	2.9
60°-70°	139.6	2.6
70°-80°	107.5	2.0
80°-90°	76.4	1.4
90°-100°	144.7	2.6
100°-110°	338.6	6.2
110°-120°	541.2	9.9
120°-130°	693.6	12.7
130°-140°	769.2	14.1
140°-150°	749.8	13.7
150°-160°	628.1	11.5
160°-170°	416.6	7.6
170°-180°	145.6	2.7
0°-30°	237.5	4.3
0°-40°	390.6	7.1
0°-60°	715.1	13.1
0°-90°	1038.6	19.0
90°-120°	1024.5	18.7
90°-150°	3237.0	59.2
90°-180°	4427.0	81.0
0°-180°	5466.0	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	47	104	119	125	7
95°	71	105	134	151	153	78
105°	281	298	323	342	346	297
115°	521	533	551	563	564	515
125°	756	768	778	786	788	676
135°	977	992	998	1006	1006	755
145°	1186	1195	1202	1206	1204	741
155°	1356	1360	1363	1370	1366	624
165°	1475	1474	1474	1483	1476	416
175°	1535	1531	1528	1537	1529	146
180°	1537	1537	1537	1537	1537	

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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°	5.7	47.0	103.8	118.8	125.4
92.5°	32.5	66.3	94.6	113.1	118.4
95°	71.0	104.7	133.8	150.6	153.3
97.5°	116.0	146.6	177.4	193.8	199.1
100°	167.8	194.6	223.2	239.6	243.1
102.5°	221.9	244.2	273.3	290.5	294.1
105°	281.1	297.8	323.4	341.5	346.4
107.5°	340.8	356.6	378.7	395.1	393.4
110°	397.4	414.0	435.7	449.8	450.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	459.7	474.5	493.6	503.8	506.1
115°	520.7	533.3	550.6	562.6	563.6
117.5°	581.1	595.1	607.1	616.5	617.1
120°	642.1	654.3	661.6	674.0	674.9
122.5°	697.9	711.4	721.2	729.3	730.6
125°	755.9	767.5	777.7	785.9	788.5
127.5°	812.9	826.7	833.5	839.3	839.4
130°	866.1	882.5	889.2	897.2	895.6
132.5°	925.8	938.3	946.3	949.9	949.6
135°	977.2	991.5	998.5	1006.4	1006.2
137.5°	1034.3	1045.9	1050.8	1057.9	1055.7
140°	1084.8	1096.1	1103.5	1110.6	1108.0
142.5°	1136.7	1148.0	1151.9	1158.5	1155.5
145°	1185.6	1194.7	1202.5	1206.5	1203.5
147.5°	1229.7	1241.4	1246.6	1249.6	1245.8
150°	1275.1	1282.9	1288.1	1292.0	1288.1
152.5°	1315.3	1323.1	1329.6	1334.8	1329.6
155°	1355.6	1359.5	1363.3	1369.8	1365.9
157.5°	1390.6	1393.2	1395.8	1404.9	1398.4
160°	1421.7	1424.3	1425.6	1433.4	1428.2
162.5°	1450.3	1450.3	1451.6	1460.6	1454.1
165°	1474.9	1473.6	1473.6	1482.7	1476.2
167.5°	1497.0	1493.1	1493.1	1502.1	1495.7
170°	1513.8	1509.9	1508.6	1517.7	1509.9
172.5°	1525.5	1521.6	1520.3	1529.4	1521.6
175°	1534.6	1530.7	1528.1	1537.2	1529.4
177.5°	1539.8	1535.9	1533.3	1541.1	1533.3
180°	1537.2	1537.2	1537.2	1537.2	1537.2

(END OF REPORT)