

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: P1035037

Luminaire Tested: S125DIW-B1090D470UB30-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035037
REPORT IS A COMBINATION OF REPORTS P1002954 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B1090D470UB30-4F0-XX-W2A-F1
Description: Define 5 Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

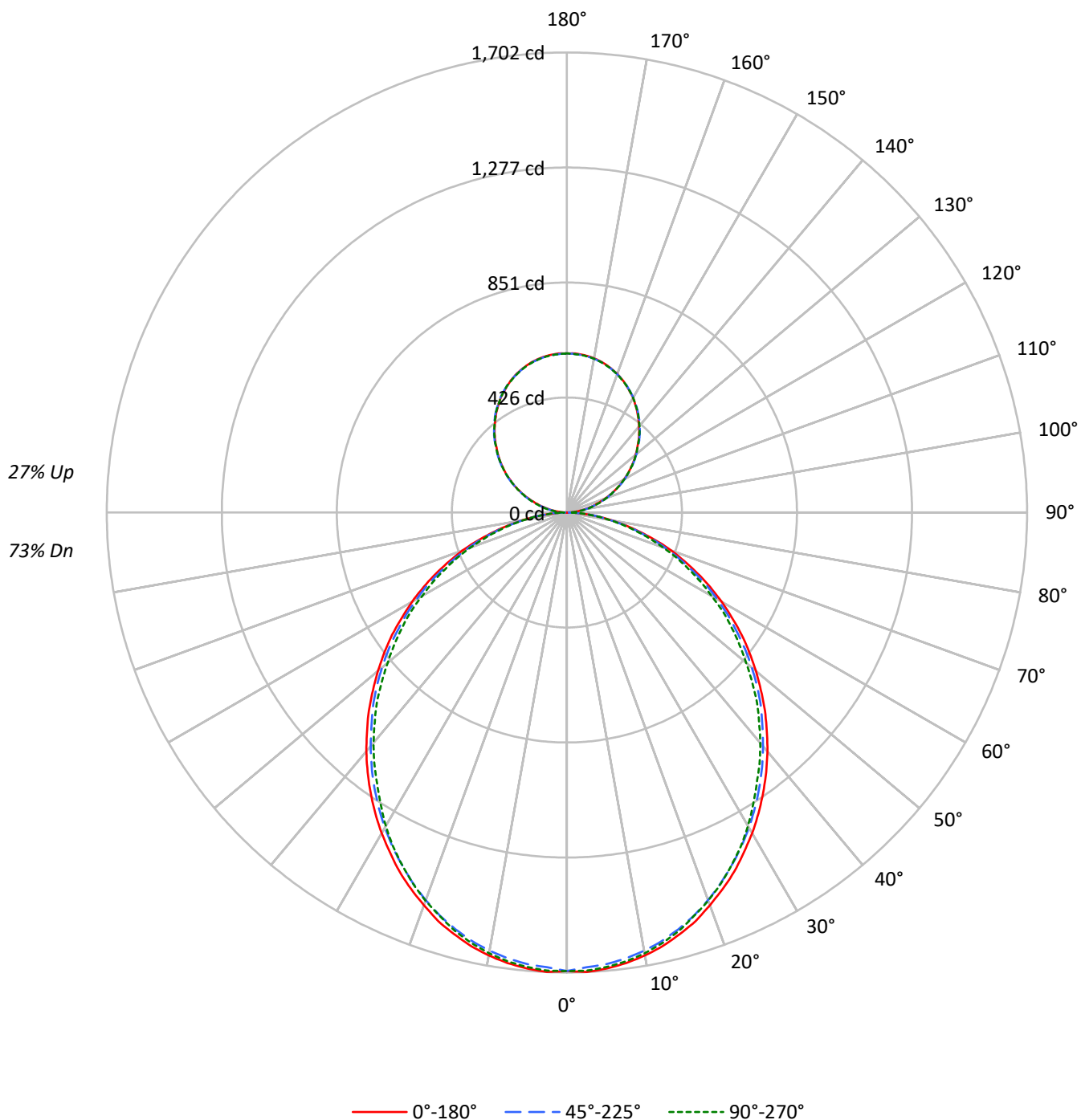
Lumens per Lamp: N/A
Luminaire Lumens: 6059.0 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 60
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	113	113	113	113	107	107	107	107	96	96	96	86	86	86	77	77	77
1	103	98	94	91	97	93	90	87	84	81	79	76	74	72	68	67	65
2	94	86	79	74	89	82	76	71	74	69	65	67	63	60	60	57	55
3	85	75	68	62	81	72	65	59	65	60	55	59	54	51	53	50	47
4	78	67	59	52	74	64	56	50	58	52	47	52	47	43	47	43	40
5	72	60	51	45	68	57	49	43	52	46	41	47	42	38	43	38	35
6	66	54	45	39	63	51	44	38	47	40	36	43	37	33	39	34	31
7	61	49	40	35	58	47	39	33	43	36	31	39	33	29	35	31	27
8	57	44	36	31	54	42	35	30	39	33	28	36	30	26	33	28	25
9	53	41	33	28	51	39	32	27	36	30	25	33	28	24	30	26	22
10	50	37	30	25	47	36	29	24	33	27	23	30	25	22	28	23	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10868	10868	10868
5°	10869	10616	10636
10°	10779	10372	10340
15°	10637	10081	9991
20°	10446	9744	9591
25°	10241	9376	9163
30°	9993	8992	8711
35°	9728	8590	8205
40°	9454	8165	7755
45°	9158	7751	7278
50°	8833	7281	6721
55°	8511	6763	6209
60°	8126	6217	5613
65°	7666	5584	4997
70°	7199	4858	4285
75°	6412	4000	3466
80°	5465	2988	2549
85°	4220	1768	1405

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9158 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.1	2.6
10°-20°	452.1	7.5
20°-30°	667.5	11.0
30°-40°	778.8	12.9
40°-50°	782.2	12.9
50°-60°	686.6	11.3
60°-70°	511.4	8.4
70°-80°	292.1	4.8
80°-90°	85.2	1.4
90°-100°	39.1	0.6
100°-110°	116.3	1.9
110°-120°	197.2	3.3
120°-130°	259.7	4.3
130°-140°	291.0	4.8
140°-150°	285.2	4.7
150°-160°	239.6	4.0
160°-170°	159.2	2.6
170°-180°	55.7	0.9
0°-30°	1279.7	21.1
0°-40°	2058.4	34.0
0°-60°	3527.2	58.2
0°-90°	4415.9	72.9
90°-120°	352.7	5.8
90°-150°	1188.5	19.6
90°-180°	1643.0	27.1
0°-180°	6059.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1696	1696	1696	1696	1696	
5°	1694	1691	1678	1690	1688	161
15°	1614	1610	1596	1602	1602	455
25°	1466	1459	1441	1444	1440	674
35°	1266	1260	1241	1235	1224	792
45°	1036	1031	1014	998	994	798
55°	789	785	766	754	745	704
65°	533	530	515	503	498	528
75°	283	280	274	270	264	301
85°	74	75	75	74	71	81
90°	0	4	7	10	11	7
95°	30	31	35	38	39	31
105°	104	107	110	112	114	111
115°	198	199	200	200	199	195
125°	288	291	291	290	290	258
135°	375	378	378	378	376	289
145°	454	456	457	457	456	284
155°	520	520	520	522	520	239
165°	565	564	564	566	564	159
175°	587	586	586	588	585	56
180°	589	589	589	589	589	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1696.3	1696.3	1696.3	1696.3	1696.3
2.5°	1701.6	1697.6	1684.2	1697.6	1696.3
5°	1693.6	1690.9	1677.5	1689.6	1688.2
7.5°	1681.5	1678.8	1664.1	1676.2	1674.8
10°	1664.1	1661.4	1646.6	1657.4	1656.0
12.5°	1642.6	1637.2	1623.8	1631.9	1631.9
15°	1614.4	1610.4	1595.6	1602.3	1602.3
17.5°	1584.9	1578.2	1563.4	1571.5	1564.8
20°	1546.0	1543.3	1525.8	1535.2	1528.5
22.5°	1507.1	1501.7	1485.6	1491.0	1486.9
25°	1465.5	1458.7	1441.3	1444.0	1440.0
27.5°	1417.1	1413.1	1395.7	1397.0	1393.0
30°	1370.2	1366.1	1346.0	1343.3	1339.3
32.5°	1319.2	1312.5	1295.0	1289.7	1281.6
35°	1265.5	1260.1	1241.3	1234.6	1223.9
37.5°	1210.5	1203.8	1186.3	1176.9	1170.2
40°	1154.1	1147.4	1128.6	1116.5	1112.5
42.5°	1093.7	1088.4	1069.6	1058.8	1052.1
45°	1036.0	1030.7	1014.5	998.4	994.4
47.5°	972.9	974.3	954.2	938.1	928.7
50°	912.6	908.5	892.4	875.0	865.6
52.5°	850.8	848.1	830.7	815.9	805.2
55°	789.1	785.1	766.3	754.2	744.8
57.5°	723.3	722.0	705.9	689.8	685.8
60°	661.6	656.2	641.5	628.1	618.7
62.5°	597.2	593.2	581.1	566.3	559.6
65°	532.8	530.1	515.3	503.2	497.9
67.5°	469.7	464.3	453.6	442.9	440.2
70°	410.7	403.9	391.9	383.8	378.4
72.5°	346.2	342.2	335.5	326.1	320.7
75°	283.2	280.5	273.8	269.7	264.4
77.5°	224.1	222.8	218.7	216.1	212.0
80°	169.1	169.1	166.4	165.1	162.4
82.5°	120.8	118.1	118.1	115.4	115.4
85°	73.8	75.2	75.2	73.8	71.1
87.5°	36.2	36.2	34.9	34.9	32.2
90°	0.5	4.1	7.3	9.6	11.0
92.5°	13.7	16.0	20.2	23.4	24.3
95°	29.8	30.7	35.3	38.5	39.4
97.5°	45.8	46.3	52.7	55.4	55.9
100°	64.1	64.1	70.1	74.2	75.1
102.5°	83.8	86.1	88.4	93.0	94.4
105°	104.5	106.7	109.5	112.2	113.6
107.5°	126.9	129.2	131.5	132.9	132.9
110°	150.3	152.6	153.9	155.3	154.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	174.1	175.0	176.8	177.3	176.4
115°	197.5	199.3	200.2	199.8	199.3
117.5°	221.3	221.7	222.7	223.1	221.3
120°	243.3	245.6	246.0	246.0	244.2
122.5°	267.1	267.6	268.9	268.5	267.1
125°	288.2	290.9	291.4	290.5	290.0
127.5°	311.5	312.9	313.4	312.9	312.0
130°	332.2	334.5	335.4	334.9	334.0
132.5°	352.8	356.9	356.4	356.0	354.6
135°	374.8	377.5	378.0	378.0	376.1
137.5°	395.4	398.1	399.1	399.5	397.2
140°	415.1	417.4	418.8	419.7	417.4
142.5°	434.8	436.6	438.5	438.9	436.6
145°	454.0	455.9	457.2	457.2	455.9
147.5°	471.9	473.3	474.2	475.6	471.9
150°	489.8	489.3	491.1	491.1	490.2
152.5°	504.4	505.3	505.8	507.2	505.3
155°	519.5	519.5	520.0	521.8	519.5
157.5°	533.3	532.4	532.8	534.7	531.5
160°	545.2	543.8	544.3	546.1	543.8
162.5°	555.7	554.8	554.8	557.1	554.4
165°	564.9	564.0	564.4	566.3	563.5
167.5°	573.1	571.3	571.3	574.1	571.3
170°	579.6	577.7	577.7	580.5	577.3
172.5°	584.1	582.3	582.3	585.1	582.3
175°	587.4	585.5	585.5	588.3	585.1
177.5°	589.6	587.8	587.4	590.1	586.9
180°	588.7	588.7	588.7	588.7	588.7

(END OF REPORT)