

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: P1035421

Luminaire Tested: S125DIW-B610D1340UB30-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035421
REPORT IS A COMBINATION OF REPORTS P1003812 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B610D1340UB30-4F0-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

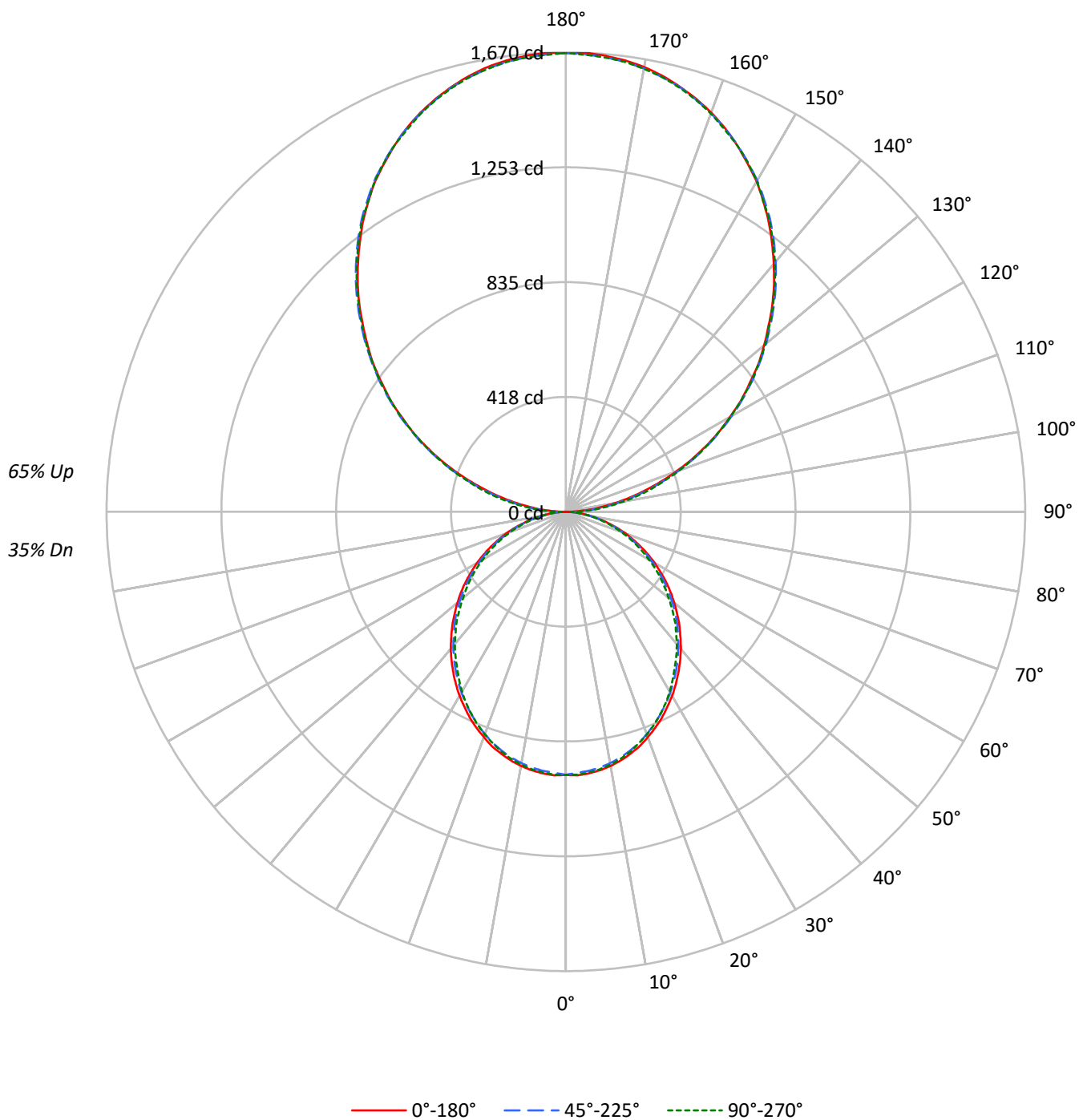
Lumens per Lamp: N/A
Luminaire Lumens: 7146.0 lumens
Efficiency: N/A
Efficacy: 108.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 66.1
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
RCR																	
0	104	104	104	104	94	94	94	94	75	75	75	58	58	58	42	42	42
1	94	90	86	83	85	82	78	75	66	63	61	51	49	48	37	36	36
2	86	79	73	68	77	71	66	62	57	54	51	45	42	40	33	31	30
3	78	69	62	56	70	63	56	52	51	46	43	39	36	34	29	27	25
4	72	61	53	47	64	55	49	44	45	40	36	35	32	29	26	24	22
5	66	54	46	40	59	49	42	37	40	35	31	31	28	25	23	21	19
6	60	49	41	35	54	44	37	32	36	31	27	28	25	22	21	19	17
7	56	44	36	31	50	40	33	28	33	27	24	26	22	19	19	17	15
8	52	40	32	27	47	36	29	25	30	25	21	23	20	17	18	15	13
9	48	36	29	24	43	33	26	22	27	22	19	22	18	15	16	14	12
10	45	33	26	21	40	30	24	20	25	20	17	20	16	14	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6127	6127	6127
5°	6127	5985	5997
10°	6076	5848	5829
15°	5997	5684	5632
20°	5889	5493	5407
25°	5773	5285	5165
30°	5634	5069	4911
35°	5484	4843	4626
40°	5330	4603	4372
45°	5163	4370	4103
50°	4980	4105	3789
55°	4798	3813	3500
60°	4581	3504	3165
65°	4322	3148	2817
70°	4058	2738	2417
75°	3614	2254	1953
80°	3080	1684	1436
85°	2378	997	792

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5163 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.2	1.3
10°-20°	254.9	3.6
20°-30°	376.3	5.3
30°-40°	439.0	6.1
40°-50°	440.9	6.2
50°-60°	387.1	5.4
60°-70°	288.3	4.0
70°-80°	164.6	2.3
80°-90°	50.1	0.7
90°-100°	110.9	1.6
100°-110°	329.5	4.6
110°-120°	558.7	7.8
120°-130°	735.5	10.3
130°-140°	824.2	11.5
140°-150°	807.9	11.3
150°-160°	678.6	9.5
160°-170°	451.1	6.3
170°-180°	157.9	2.2
0°-30°	721.4	10.1
0°-40°	1160.5	16.2
0°-60°	1988.5	27.8
0°-90°	2491.6	34.9
90°-120°	999.1	14.0
90°-150°	3366.8	47.1
90°-180°	4654.0	65.1
0°-180°	7146.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	956	956	956	956	956	
5°	955	953	946	952	952	91
15°	910	908	900	903	903	257
25°	826	822	812	814	812	380
35°	713	710	700	696	690	446
45°	584	581	572	563	561	450
55°	445	443	432	425	420	397
65°	300	299	290	284	281	298
75°	160	158	154	152	149	170
85°	42	42	42	42	40	46
90°	1	12	21	27	31	8
95°	84	87	100	109	112	88
105°	296	302	310	318	322	316
115°	559	565	567	566	565	553
125°	816	824	825	823	822	731
135°	1062	1069	1071	1071	1066	818
145°	1286	1291	1295	1295	1291	804
155°	1472	1472	1473	1478	1472	678
165°	1600	1598	1599	1604	1596	452
175°	1664	1659	1659	1666	1657	158
180°	1668	1668	1668	1668	1668	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	956.3	956.3	956.3	956.3	956.3
2.5°	959.3	957.1	949.5	957.1	956.3
5°	954.8	953.3	945.7	952.5	951.8
7.5°	948.0	946.5	938.1	944.9	944.2
10°	938.1	936.6	928.3	934.4	933.6
12.5°	926.0	923.0	915.4	920.0	920.0
15°	910.1	907.9	899.6	903.3	903.3
17.5°	893.5	889.7	881.4	885.9	882.2
20°	871.6	870.0	860.2	865.5	861.7
22.5°	849.6	846.6	837.5	840.5	838.3
25°	826.2	822.4	812.5	814.1	811.8
27.5°	798.9	796.7	786.8	787.6	785.3
30°	772.5	770.2	758.8	757.3	755.0
32.5°	743.7	739.9	730.1	727.1	722.5
35°	713.4	710.4	699.8	696.0	690.0
37.5°	682.4	678.6	668.8	663.5	659.7
40°	650.6	646.9	636.3	629.5	627.2
42.5°	616.6	613.6	603.0	596.9	593.1
45°	584.1	581.0	572.0	562.9	560.6
47.5°	548.5	549.3	537.9	528.8	523.5
50°	514.5	512.2	503.1	493.3	488.0
52.5°	479.7	478.1	468.3	460.0	453.9
55°	444.9	442.6	432.0	425.2	419.9
57.5°	407.8	407.0	398.0	388.9	386.6
60°	373.0	370.0	361.6	354.1	348.8
62.5°	336.7	334.4	327.6	319.3	315.5
65°	300.4	298.8	290.5	283.7	280.7
67.5°	264.8	261.8	255.7	249.7	248.2
70°	231.5	227.7	220.9	216.4	213.4
72.5°	195.2	192.9	189.1	183.8	180.8
75°	159.6	158.1	154.3	152.1	149.0
77.5°	126.3	125.6	123.3	121.8	119.5
80°	95.3	95.3	93.8	93.1	91.5
82.5°	68.1	66.6	66.6	65.1	65.1
85°	41.6	42.4	42.4	41.6	40.1
87.5°	20.4	20.4	19.7	19.7	18.2
90°	1.3	11.7	20.8	27.3	31.1
92.5°	38.9	45.4	57.1	66.2	68.8
95°	84.4	87.0	99.9	109.0	111.6
97.5°	129.8	131.1	149.2	157.0	158.3
100°	181.7	181.7	198.6	210.2	212.8
102.5°	237.5	244.0	250.5	263.5	267.4
105°	295.9	302.4	310.2	318.0	321.9
107.5°	359.5	366.0	372.5	376.4	376.4
110°	425.7	432.2	436.1	440.0	438.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	493.2	495.8	501.0	502.3	499.7
115°	559.4	564.6	567.1	565.8	564.6
117.5°	626.8	628.1	630.7	632.0	626.8
120°	689.1	695.6	696.9	696.9	691.7
122.5°	756.6	757.9	761.8	760.5	756.6
125°	816.3	824.1	825.4	822.8	821.5
127.5°	882.5	886.4	887.7	886.4	883.8
130°	940.9	947.4	950.0	948.7	946.1
132.5°	999.3	1011.0	1009.7	1008.4	1004.5
135°	1061.6	1069.4	1070.7	1070.7	1065.5
137.5°	1120.0	1127.8	1130.4	1131.7	1125.2
140°	1175.8	1182.3	1186.2	1188.8	1182.3
142.5°	1231.6	1236.8	1242.0	1243.3	1236.8
145°	1286.1	1291.3	1295.2	1295.2	1291.3
147.5°	1336.8	1340.6	1343.2	1347.1	1336.8
150°	1387.4	1386.1	1391.3	1391.3	1388.7
152.5°	1428.9	1431.5	1432.8	1436.7	1431.5
155°	1471.7	1471.7	1473.0	1478.2	1471.7
157.5°	1510.7	1508.1	1509.4	1514.6	1505.5
160°	1544.4	1540.5	1541.8	1547.0	1540.5
162.5°	1574.3	1571.7	1571.7	1578.1	1570.4
165°	1600.2	1597.6	1598.9	1604.1	1596.3
167.5°	1623.6	1618.4	1618.4	1626.2	1618.4
170°	1641.7	1636.5	1636.5	1644.3	1635.3
172.5°	1654.7	1649.5	1649.5	1657.3	1649.5
175°	1663.8	1658.6	1658.6	1666.4	1657.3
177.5°	1670.3	1665.1	1663.8	1671.6	1662.5
180°	1667.7	1667.7	1667.7	1667.7	1667.7

(END OF REPORT)