

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: P1035425

Luminaire Tested: S125DIW-B610D1340UB35-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035425
REPORT IS A COMBINATION OF REPORTS P1003818 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B610D1340UB35-4F0-XX-W2A-D1
Description: Define 5 Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

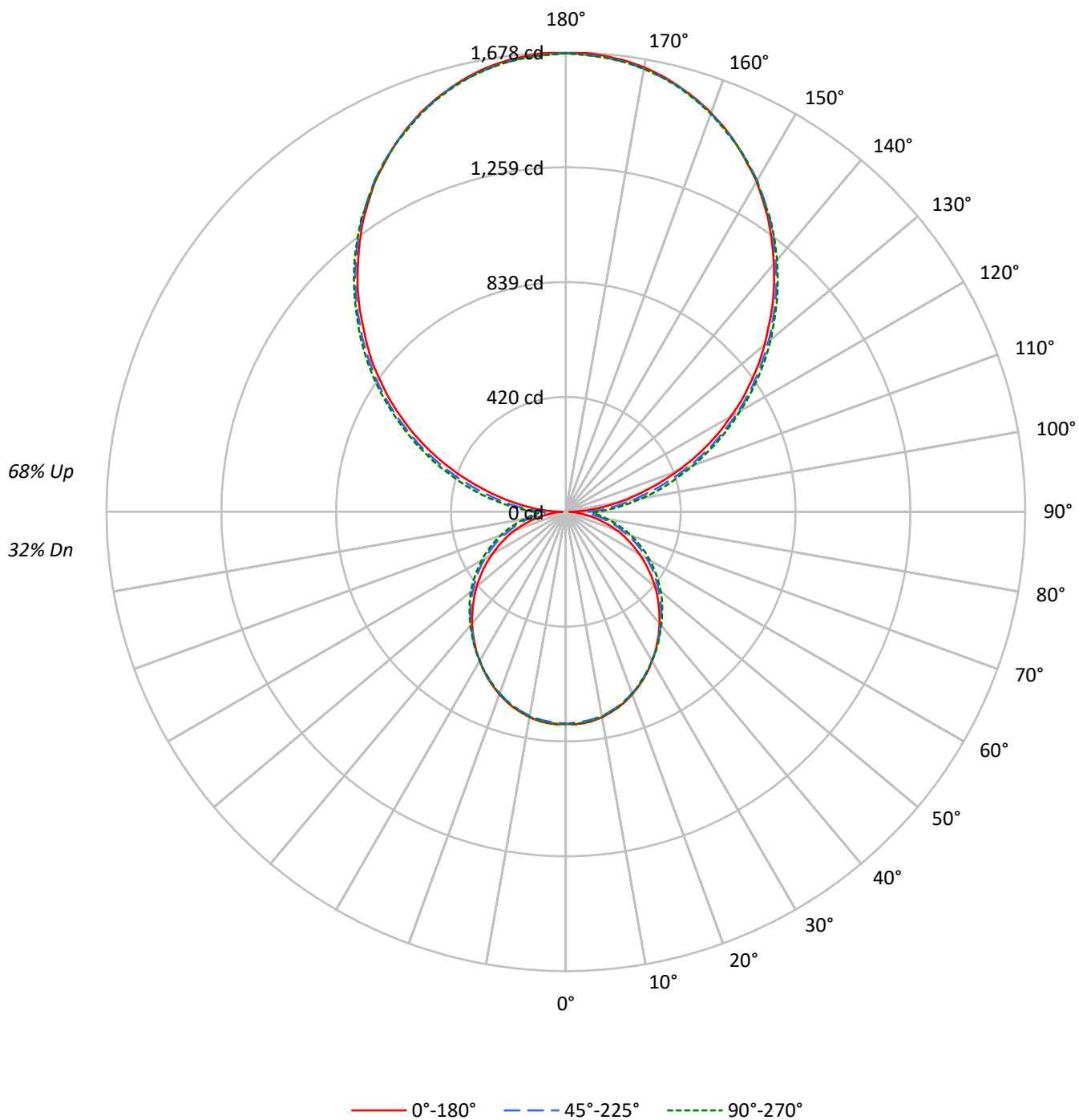
Lumens per Lamp: N/A
Luminaire Lumens: 7078.0 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	103	103	103	103	93	93	93	93	73	73	73	56	56	56	39	39	39
1	93	89	85	81	84	80	77	74	63	61	59	48	47	45	34	33	32
2	85	77	71	66	76	70	64	60	55	52	48	42	40	37	30	28	27
3	77	68	60	55	69	61	55	50	49	44	40	37	34	31	26	24	23
4	70	60	52	46	63	54	47	42	43	38	34	33	29	27	23	21	19
5	64	53	45	39	58	48	41	36	38	33	29	29	26	23	21	19	17
6	59	47	39	34	53	43	36	31	34	29	25	26	23	20	19	17	15
7	55	43	35	29	49	39	32	27	31	26	22	24	20	18	17	15	13
8	51	39	31	26	45	35	28	24	28	23	20	22	18	16	16	13	12
9	47	35	28	23	42	32	25	21	26	21	17	20	16	14	15	12	10
10	44	32	25	20	39	29	23	19	24	19	16	18	15	12	13	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4966	4966	4966
5°	4974	4862	4873
10°	4936	4763	4749
15°	4876	4647	4596
20°	4795	4508	4444
25°	4699	4360	4259
30°	4583	4198	4092
35°	4475	4049	3938
40°	4364	3892	3782
45°	4239	3756	3642
50°	4119	3608	3517
55°	3974	3467	3369
60°	3817	3307	3220
65°	3652	3137	3050
70°	3464	2911	2874
75°	3165	2687	2660
80°	2776	2415	2422
85°	2390	2199	2297

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4239 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.3	1.0
10°-20°	208.2	2.9
20°-30°	309.6	4.4
30°-40°	366.7	5.2
40°-50°	379.1	5.4
50°-60°	349.2	4.9
60°-70°	282.3	4.0
70°-80°	188.9	2.7
80°-90°	100.2	1.4
90°-100°	166.4	2.4
100°-110°	371.4	5.2
110°-120°	588.3	8.3
120°-130°	754.1	10.7
130°-140°	834.5	11.8
140°-150°	812.7	11.5
150°-160°	681.5	9.6
160°-170°	453.0	6.4
170°-180°	158.5	2.2
0°-30°	591.2	8.4
0°-40°	957.8	13.5
0°-60°	1686.1	23.8
0°-90°	2257.5	31.9
90°-120°	1126.1	15.9
90°-150°	3527.4	49.8
90°-180°	4820.0	68.1
0°-180°	7078.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	775	775	775	775	775	
5°	775	774	768	774	774	74
15°	740	741	736	740	737	209
25°	672	675	670	673	669	310
35°	582	587	585	587	587	364
45°	480	488	492	497	498	370
55°	368	381	393	401	404	329
65°	254	271	290	301	304	252
75°	140	160	184	199	203	148
85°	42	67	94	110	116	44
90°	14	48	83	107	116	14
95°	95	117	156	182	190	96
105°	304	323	353	376	386	324
115°	566	577	599	612	615	560
125°	823	830	846	856	858	737
135°	1068	1075	1081	1091	1090	823
145°	1292	1297	1301	1305	1304	808
155°	1478	1478	1479	1485	1478	681
165°	1607	1604	1606	1611	1603	453
175°	1671	1666	1666	1674	1664	159
180°	1675	1675	1675	1675	1675	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	775.1	775.1	775.1	775.1	775.1
2.5°	777.3	775.8	770.5	775.8	775.1
5°	775.1	773.5	768.2	774.3	773.5
7.5°	769.7	769.0	763.7	769.0	768.2
10°	762.1	762.1	756.1	761.4	760.6
12.5°	751.5	752.3	747.7	751.5	749.2
15°	740.1	740.9	735.5	740.1	737.1
17.5°	725.7	727.2	721.9	725.7	723.4
20°	709.7	711.2	705.9	708.2	708.2
22.5°	691.5	694.5	688.4	691.5	689.2
25°	672.5	674.8	670.2	673.2	669.4
27.5°	652.0	655.0	649.7	652.0	650.4
30°	628.4	633.0	628.4	629.9	629.2
32.5°	607.1	610.9	607.9	609.4	608.6
35°	582.1	587.4	585.1	587.4	587.4
37.5°	557.7	562.3	561.5	564.6	563.8
40°	532.7	538.7	538.0	541.0	542.5
42.5°	505.3	513.7	515.9	519.7	519.7
45°	479.5	487.8	491.6	497.0	497.7
47.5°	452.9	460.5	466.6	474.2	475.7
50°	425.5	433.9	442.2	450.6	452.9
52.5°	396.6	407.3	417.9	427.0	428.6
55°	368.5	380.7	392.8	401.2	404.2
57.5°	339.7	354.1	367.8	376.9	379.2
60°	310.8	326.0	341.2	352.6	354.9
62.5°	282.7	297.9	314.6	327.5	330.5
65°	253.8	271.3	289.5	300.9	303.9
67.5°	227.2	243.9	262.2	275.8	279.6
70°	197.6	215.0	234.8	249.2	253.8
72.5°	168.7	186.9	209.0	224.9	228.0
75°	139.8	159.6	183.9	199.1	202.9
77.5°	111.7	134.5	157.3	174.0	177.0
80°	85.9	108.7	134.5	151.2	154.3
82.5°	62.3	86.6	113.2	129.2	135.3
85°	41.8	66.9	93.5	110.2	116.3
87.5°	26.6	50.9	76.7	94.2	99.5
90°	13.5	48.2	83.2	107.2	116.4
92.5°	49.7	78.3	116.6	142.5	150.4
95°	94.6	116.9	155.9	181.7	189.6
97.5°	139.4	159.0	202.3	226.1	232.7
100°	190.9	206.8	248.0	275.7	282.9
102.5°	246.1	267.0	297.2	325.4	333.8
105°	304.0	322.7	353.3	376.3	385.5
107.5°	367.1	384.3	412.9	432.0	436.5
110°	432.8	448.4	473.6	492.0	496.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	500.6	510.1	535.8	550.8	553.5
115°	566.4	576.9	599.2	611.6	614.9
117.5°	633.3	638.4	660.0	674.3	674.3
120°	695.9	704.7	723.5	736.4	735.7
122.5°	762.9	765.0	785.6	796.5	797.1
125°	822.8	830.0	846.5	856.0	858.4
127.5°	888.6	891.7	905.9	916.0	918.0
130°	947.3	953.0	966.3	975.6	976.8
132.5°	1005.1	1016.8	1023.1	1032.5	1031.6
135°	1067.7	1074.8	1081.4	1091.3	1089.9
137.5°	1126.3	1133.4	1139.1	1149.5	1146.0
140°	1181.7	1188.2	1192.8	1203.8	1200.3
142.5°	1237.7	1242.1	1247.3	1255.4	1252.0
145°	1292.5	1296.9	1300.8	1304.6	1303.7
147.5°	1342.5	1346.4	1349.0	1354.4	1345.5
150°	1393.3	1392.0	1397.2	1397.2	1395.4
152.5°	1435.0	1437.6	1438.9	1442.9	1437.6
155°	1478.0	1478.0	1479.3	1484.6	1478.0
157.5°	1517.1	1514.5	1515.8	1521.1	1511.9
160°	1551.0	1547.1	1548.4	1553.6	1547.1
162.5°	1581.0	1578.4	1578.4	1584.9	1577.1
165°	1607.1	1604.5	1605.8	1611.0	1603.2
167.5°	1630.5	1625.3	1625.3	1633.1	1625.3
170°	1648.8	1643.6	1643.6	1651.4	1642.3
172.5°	1661.8	1656.6	1656.6	1664.4	1656.6
175°	1670.9	1665.7	1665.7	1673.6	1664.4
177.5°	1677.5	1672.3	1670.9	1678.8	1669.6
180°	1674.9	1674.9	1674.9	1674.9	1674.9

(END OF REPORT)