

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: P1034563

Luminaire Tested: S125DIW-B610D1340UB2750-4F0-XX-W2A-D_5000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034563
REPORT IS A COMBINATION OF REPORTS P1003797 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B610D1340UB2750-4F0-XX-W2A-D_5000K
Description: Define 5 Direct/Indirect Wall Mount with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

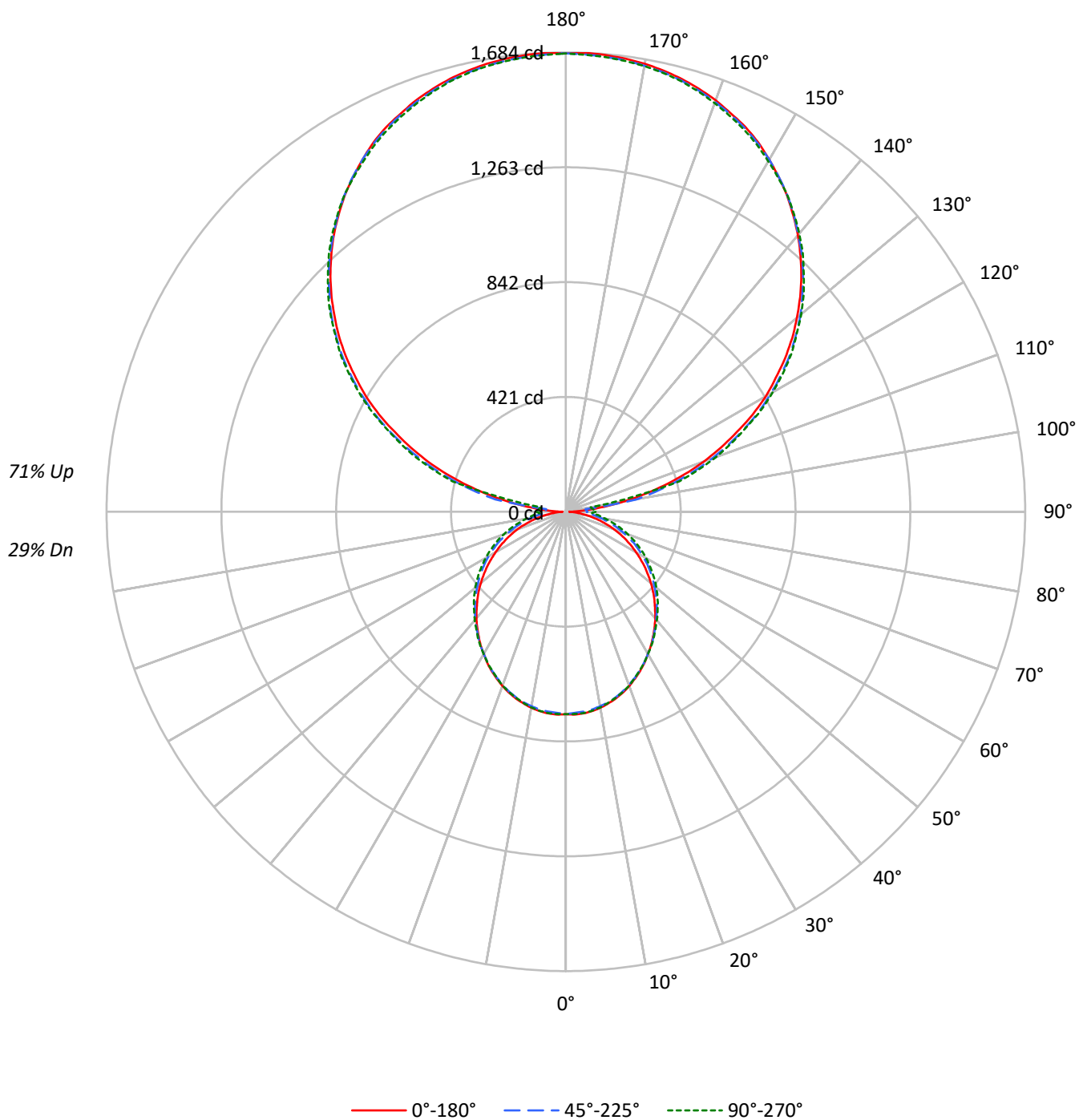
Lumens per Lamp: N/A
Luminaire Lumens: 7463.0 lumens
Efficiency: N/A
Efficacy: 112.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	102	102	102	102	91	91	91	91	72	72	72	53	53	53	37	37	37	29		
1	93	88	84	81	83	79	76	73	62	60	58	46	45	44	32	31	30	23		
2	84	77	71	66	75	69	64	59	54	50	47	40	38	36	28	26	25	19		
3	77	67	60	54	68	60	54	49	47	43	40	36	33	30	24	23	21	16		
4	70	59	52	46	62	53	47	42	42	37	33	31	28	26	22	20	18	14		
5	64	53	45	39	57	47	41	35	37	32	29	28	25	22	19	17	16	12		
6	59	47	39	33	52	42	36	31	34	29	25	25	22	19	18	15	14	10		
7	54	42	35	29	48	38	31	27	30	25	22	23	19	17	16	14	12	9		
8	50	38	31	26	45	35	28	23	28	23	19	21	17	15	15	12	11	8		
9	47	35	27	23	42	31	25	21	25	20	17	19	16	13	14	11	10	7		
10	43	32	25	20	39	29	23	18	23	18	15	18	14	12	13	10	9	7		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4755	4755	4755
5°	4762	4655	4667
10°	4727	4560	4547
15°	4670	4450	4401
20°	4592	4316	4255
25°	4500	4174	4079
30°	4388	4020	3918
35°	4284	3877	3770
40°	4178	3727	3622
45°	4058	3596	3488
50°	3943	3455	3367
55°	3806	3320	3227
60°	3655	3166	3083
65°	3497	3004	2920
70°	3316	2787	2752
75°	3032	2573	2547
80°	2656	2312	2319
85°	2287	2104	2199

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4058 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.2	0.9
10°-20°	199.4	2.7
20°-30°	296.5	4.0
30°-40°	351.1	4.7
40°-50°	363.0	4.9
50°-60°	334.4	4.5
60°-70°	270.3	3.6
70°-80°	180.9	2.4
80°-90°	96.0	1.3
90°-100°	109.7	1.5
100°-110°	418.0	5.6
110°-120°	708.9	9.5
120°-130°	891.3	11.9
130°-140°	949.2	12.7
140°-150°	886.1	11.9
150°-160°	715.7	9.6
160°-170°	462.9	6.2
170°-180°	159.6	2.1
0°-30°	566.0	7.6
0°-40°	917.1	12.3
0°-60°	1614.5	21.6
0°-90°	2161.6	29.0
90°-120°	1236.6	16.6
90°-150°	3963.2	53.1
90°-180°	5301.0	71.0
0°-180°	7463.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	742	742	742	742	742	
5°	742	741	736	741	741	70
15°	709	709	704	709	706	200
25°	644	646	642	645	641	296
35°	557	562	560	562	562	349
45°	459	467	471	476	477	354
55°	353	364	376	384	387	315
65°	243	260	277	288	291	241
75°	134	153	176	191	194	142
85°	40	64	90	106	111	42
90°	13	46	80	103	111	12
95°	80	96	73	95	100	94
105°	373	389	411	426	430	395
115°	692	703	723	732	728	686
125°	981	989	1003	1010	1010	876
135°	1221	1228	1230	1237	1233	941
145°	1414	1416	1416	1421	1416	884
155°	1557	1550	1552	1556	1546	717
165°	1643	1636	1637	1644	1634	464
175°	1680	1673	1674	1684	1673	160
180°	1680	1680	1680	1680	1680	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	742.1	742.1	742.1	742.1	742.1
2.5°	744.3	742.9	737.8	742.9	742.1
5°	742.1	740.7	735.6	741.4	740.7
7.5°	737.0	736.3	731.2	736.3	735.6
10°	729.8	729.8	723.9	729.0	728.3
12.5°	719.6	720.3	715.9	719.6	717.4
15°	708.7	709.4	704.3	708.7	705.8
17.5°	694.8	696.3	691.2	694.8	692.7
20°	679.6	681.0	675.9	678.1	678.1
22.5°	662.1	665.0	659.2	662.1	659.9
25°	643.9	646.1	641.7	644.6	641.0
27.5°	624.3	627.2	622.1	624.3	622.8
30°	601.7	606.1	601.7	603.2	602.4
32.5°	581.3	585.0	582.1	583.5	582.8
35°	557.3	562.4	560.2	562.4	562.4
37.5°	534.0	538.4	537.7	540.6	539.9
40°	510.0	515.9	515.1	518.0	519.5
42.5°	483.8	491.8	494.0	497.7	497.7
45°	459.1	467.1	470.7	475.8	476.6
47.5°	433.6	440.9	446.7	454.0	455.5
50°	407.4	415.4	423.5	431.5	433.6
52.5°	379.8	390.0	400.2	408.9	410.4
55°	352.9	364.5	376.2	384.2	387.1
57.5°	325.2	339.1	352.1	360.9	363.1
60°	297.6	312.1	326.7	337.6	339.8
62.5°	270.7	285.2	301.2	313.6	316.5
65°	243.0	259.7	277.2	288.1	291.0
67.5°	217.5	233.6	251.0	264.1	267.8
70°	189.2	205.9	224.8	238.6	243.0
72.5°	161.5	179.0	200.1	215.4	218.3
75°	133.9	152.8	176.1	190.6	194.3
77.5°	107.0	128.8	150.6	166.6	169.5
80°	82.2	104.0	128.8	144.8	147.7
82.5°	59.7	82.9	108.4	123.7	129.5
85°	40.0	64.0	89.5	105.5	111.3
87.5°	25.5	48.7	73.5	90.2	95.3
90°	12.8	46.1	79.6	102.6	111.4
92.5°	33.9	43.8	76.7	99.0	105.3
95°	80.5	95.7	73.0	95.3	100.4
97.5°	142.0	167.0	72.6	90.4	96.8
100°	216.0	235.0	263.3	92.9	92.4
102.5°	291.3	310.1	335.2	352.2	251.9
105°	372.7	389.4	411.2	425.8	429.6
107.5°	456.7	466.9	490.5	506.3	505.7
110°	538.2	546.9	569.8	579.9	586.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	615.4	625.7	646.6	654.7	657.3
115°	692.0	703.3	723.4	731.6	728.4
117.5°	772.1	775.8	799.0	803.8	806.4
120°	846.9	847.8	868.4	878.2	876.3
122.5°	912.2	919.1	936.4	945.6	942.5
125°	980.7	988.7	1003.2	1009.9	1009.8
127.5°	1046.0	1051.5	1062.6	1071.0	1065.4
130°	1105.8	1111.3	1122.7	1129.1	1126.6
132.5°	1164.9	1172.3	1175.8	1186.0	1182.7
135°	1220.9	1227.6	1230.2	1237.2	1233.3
137.5°	1273.2	1279.9	1280.3	1289.1	1285.8
140°	1323.5	1326.0	1325.6	1336.0	1331.5
142.5°	1369.6	1370.1	1372.6	1379.1	1374.7
145°	1414.4	1416.2	1416.2	1421.1	1416.5
147.5°	1453.6	1453.6	1454.8	1457.6	1450.3
150°	1491.0	1488.5	1491.0	1493.5	1484.2
152.5°	1527.1	1520.9	1523.4	1525.8	1517.1
155°	1557.0	1549.5	1552.0	1555.7	1545.8
157.5°	1580.6	1576.9	1576.9	1580.6	1570.7
160°	1605.6	1598.1	1599.3	1604.3	1594.3
162.5°	1625.5	1618.0	1619.3	1626.7	1615.5
165°	1642.9	1635.5	1636.7	1644.2	1634.2
167.5°	1656.6	1649.2	1650.4	1659.1	1647.9
170°	1667.8	1659.1	1660.4	1670.3	1659.1
172.5°	1675.3	1666.6	1669.1	1677.8	1666.6
175°	1680.3	1672.8	1674.1	1684.0	1672.8
177.5°	1684.0	1676.6	1677.8	1686.5	1676.6
180°	1680.3	1680.3	1680.3	1680.3	1680.3

(END OF REPORT)