

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: P1035460

Luminaire Tested: S125DIW-B610D1560UB40-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035460
REPORT IS A COMBINATION OF REPORTS P1003896 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B610D1560UB40-4F0-XX-W2A-F1
Description: Define 5 Direct/Indirect Wall Mount with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

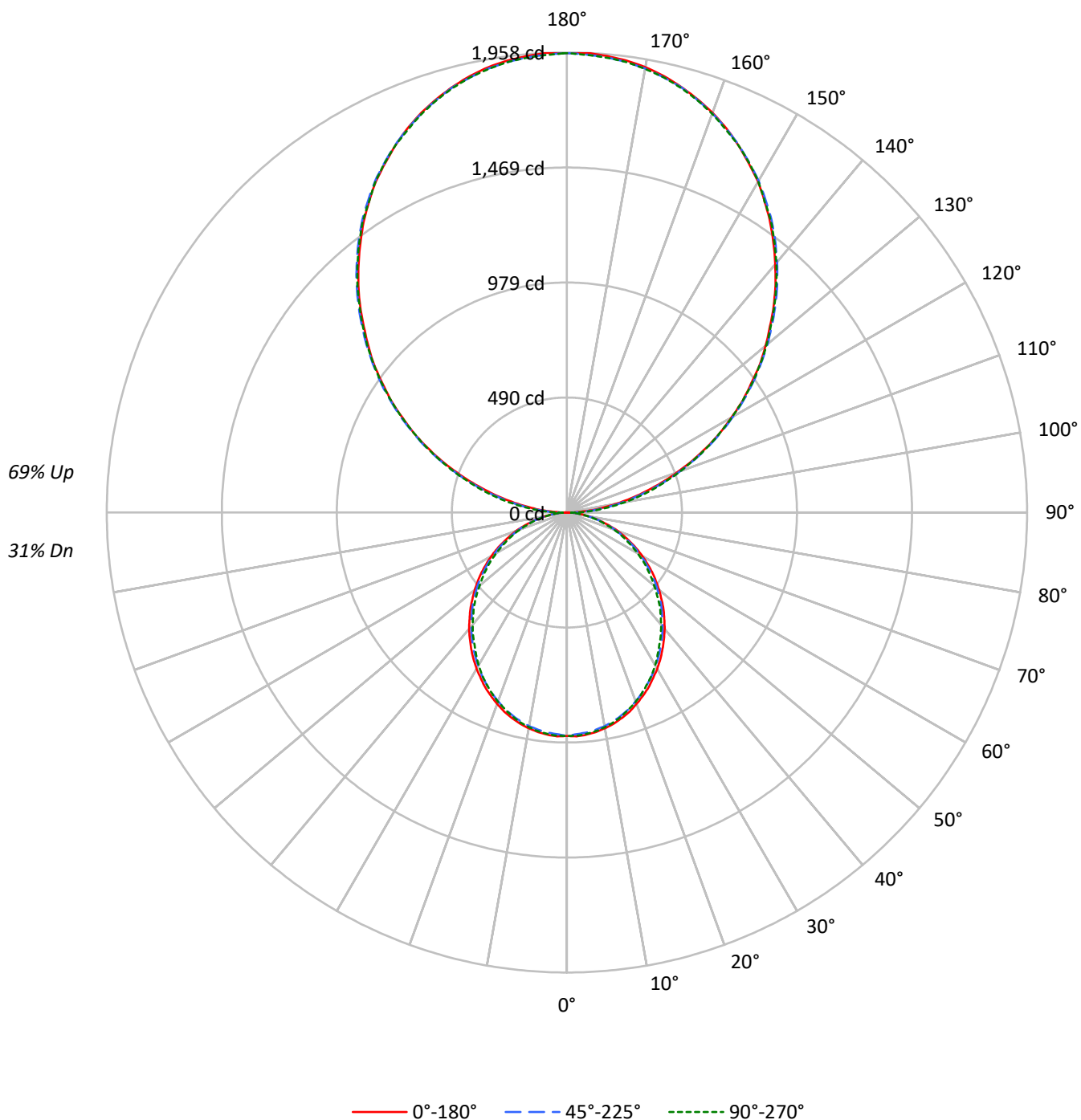
Lumens per Lamp: N/A
Luminaire Lumens: 7935.1 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 76.2
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	92	92	92	92	73	73	73	55	55	55	39	39	39
1	94	89	86	82	84	80	77	74	64	62	60	48	47	46	34	33	33
2	85	78	72	67	76	70	65	61	56	52	49	42	40	38	30	29	27
3	78	68	61	56	69	62	56	51	49	45	41	37	35	32	27	25	23
4	71	60	53	47	63	55	48	43	44	39	35	33	30	27	24	22	20
5	65	54	46	40	58	49	42	37	39	34	30	30	26	24	21	19	17
6	60	48	40	35	53	44	37	32	35	30	26	27	23	21	19	17	15
7	55	43	36	30	49	39	32	28	32	27	23	24	21	18	18	15	14
8	51	39	32	26	46	36	29	24	29	24	20	22	19	16	16	14	12
9	47	36	28	23	43	32	26	22	26	21	18	20	17	14	15	13	11
10	44	33	26	21	40	30	23	19	24	19	16	19	15	13	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6093	6093	6093
5°	6093	5951	5963
10°	6043	5815	5796
15°	5963	5652	5601
20°	5856	5462	5377
25°	5741	5256	5136
30°	5602	5041	4883
35°	5453	4816	4600
40°	5300	4577	4348
45°	5134	4345	4080
50°	4952	4082	3767
55°	4771	3791	3480
60°	4556	3485	3146
65°	4298	3131	2801
70°	4035	2724	2403
75°	3593	2243	1943
80°	3063	1675	1429
85°	2367	990	788

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5134 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.7	1.1
10°-20°	253.5	3.2
20°-30°	374.2	4.7
30°-40°	436.6	5.5
40°-50°	438.5	5.5
50°-60°	384.9	4.9
60°-70°	286.7	3.6
70°-80°	163.7	2.1
80°-90°	50.3	0.6
90°-100°	130.0	1.6
100°-110°	386.3	4.9
110°-120°	655.1	8.3
120°-130°	862.4	10.9
130°-140°	966.4	12.2
140°-150°	947.2	11.9
150°-160°	795.6	10.0
160°-170°	528.9	6.7
170°-180°	185.1	2.3
0°-30°	717.4	9.0
0°-40°	1154.0	14.5
0°-60°	1977.3	24.9
0°-90°	2478.1	31.2
90°-120°	1171.4	14.8
90°-150°	3947.4	49.7
90°-180°	5457.0	68.8
0°-180°	7935.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	951	951	951	951	951	
5°	949	948	940	947	946	90
15°	905	903	894	898	898	255
25°	822	818	808	810	807	378
35°	709	706	696	692	686	444
45°	581	578	569	560	558	447
55°	442	440	430	423	418	395
65°	299	297	289	282	279	296
75°	159	157	154	151	148	169
85°	41	42	42	41	40	45
90°	2	14	24	32	36	9
95°	99	102	117	128	131	103
105°	347	354	364	373	377	370
115°	656	662	665	663	662	649
125°	957	966	968	965	963	858
135°	1245	1254	1255	1255	1249	959
145°	1508	1514	1519	1519	1514	943
155°	1726	1726	1727	1733	1726	795
165°	1876	1873	1875	1881	1872	529
175°	1951	1945	1945	1954	1943	185
180°	1955	1955	1955	1955	1955	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	950.9	950.9	950.9	950.9	950.9
2.5°	953.9	951.7	944.1	951.7	950.9
5°	949.4	947.9	940.4	947.2	946.4
7.5°	942.6	941.1	932.9	939.6	938.9
10°	932.9	931.4	923.1	929.1	928.3
12.5°	920.8	917.8	910.3	914.8	914.8
15°	905.0	902.8	894.5	898.3	898.3
17.5°	888.5	884.7	876.4	881.0	877.2
20°	866.7	865.2	855.4	860.6	856.9
22.5°	844.8	841.8	832.8	835.8	833.6
25°	821.5	817.8	808.0	809.5	807.2
27.5°	794.4	792.2	782.4	783.2	780.9
30°	768.1	765.8	754.6	753.1	750.8
32.5°	739.5	735.8	726.0	723.0	718.5
35°	709.4	706.4	695.9	692.1	686.1
37.5°	678.6	674.8	665.0	659.8	656.0
40°	647.0	643.2	632.7	625.9	623.7
42.5°	613.1	610.1	599.6	593.6	589.8
45°	580.8	577.8	568.7	559.7	557.5
47.5°	545.4	546.2	534.9	525.9	520.6
50°	511.6	509.3	500.3	490.5	485.2
52.5°	477.0	475.5	465.7	457.4	451.4
55°	442.4	440.1	429.6	422.8	417.5
57.5°	405.5	404.7	395.7	386.7	384.4
60°	370.9	367.9	359.6	352.1	346.8
62.5°	334.8	332.5	325.7	317.5	313.7
65°	298.7	297.2	288.9	282.1	279.1
67.5°	263.3	260.3	254.3	248.3	246.8
70°	230.2	226.4	219.7	215.2	212.2
72.5°	194.1	191.8	188.1	182.8	179.8
75°	158.7	157.2	153.5	151.2	148.2
77.5°	125.6	124.9	122.6	121.1	118.9
80°	94.8	94.8	93.3	92.5	91.0
82.5°	67.7	66.2	66.2	64.7	64.7
85°	41.4	42.1	42.1	41.4	39.9
87.5°	20.3	20.3	19.6	19.6	18.1
90°	1.5	13.7	24.3	32.0	36.5
92.5°	45.6	53.3	67.0	77.6	80.6
95°	98.9	101.9	117.2	127.8	130.9
97.5°	152.2	153.7	175.0	184.1	185.6
100°	213.0	213.0	232.8	246.5	249.5
102.5°	278.5	286.1	293.7	308.9	313.4
105°	346.9	354.5	363.7	372.8	377.4
107.5°	421.5	429.1	436.7	441.3	441.3
110°	499.1	506.7	511.3	515.8	514.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	578.2	581.3	587.3	588.9	585.8
115°	655.8	661.9	664.9	663.4	661.9
117.5°	734.9	736.5	739.5	741.0	734.9
120°	808.0	815.6	817.1	817.1	811.0
122.5°	887.1	888.6	893.2	891.7	887.1
125°	957.1	966.2	967.7	964.7	963.2
127.5°	1034.7	1039.3	1040.8	1039.3	1036.2
130°	1103.2	1110.8	1113.8	1112.3	1109.2
132.5°	1171.6	1185.3	1183.8	1182.3	1177.7
135°	1244.7	1253.8	1255.3	1255.3	1249.2
137.5°	1313.1	1322.3	1325.3	1326.8	1319.2
140°	1378.6	1386.2	1390.7	1393.8	1386.2
142.5°	1444.0	1450.1	1456.2	1457.7	1450.1
145°	1507.9	1514.0	1518.6	1518.6	1514.0
147.5°	1567.2	1571.8	1574.9	1579.4	1567.2
150°	1626.6	1625.1	1631.2	1631.2	1628.1
152.5°	1675.3	1678.3	1679.8	1684.4	1678.3
155°	1725.5	1725.5	1727.0	1733.1	1725.5
157.5°	1771.1	1768.1	1769.6	1775.7	1765.1
160°	1810.7	1806.1	1807.7	1813.7	1806.1
162.5°	1845.7	1842.7	1842.7	1850.3	1841.1
165°	1876.1	1873.1	1874.6	1880.7	1871.6
167.5°	1903.5	1897.4	1897.4	1906.6	1897.4
170°	1924.8	1918.7	1918.7	1927.9	1917.2
172.5°	1940.0	1934.0	1934.0	1943.1	1934.0
175°	1950.7	1944.6	1944.6	1953.7	1943.1
177.5°	1958.3	1952.2	1950.7	1959.8	1949.2
180°	1955.3	1955.3	1955.3	1955.3	1955.3

(END OF REPORT)