

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: P1034448

Luminaire Tested: S125DIW-B1270D470UB2750-4F0-XX-W2A-F_5000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034448
REPORT IS A COMBINATION OF REPORTS P1003276 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B1270D470UB2750-4F0-XX-W2A-F_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

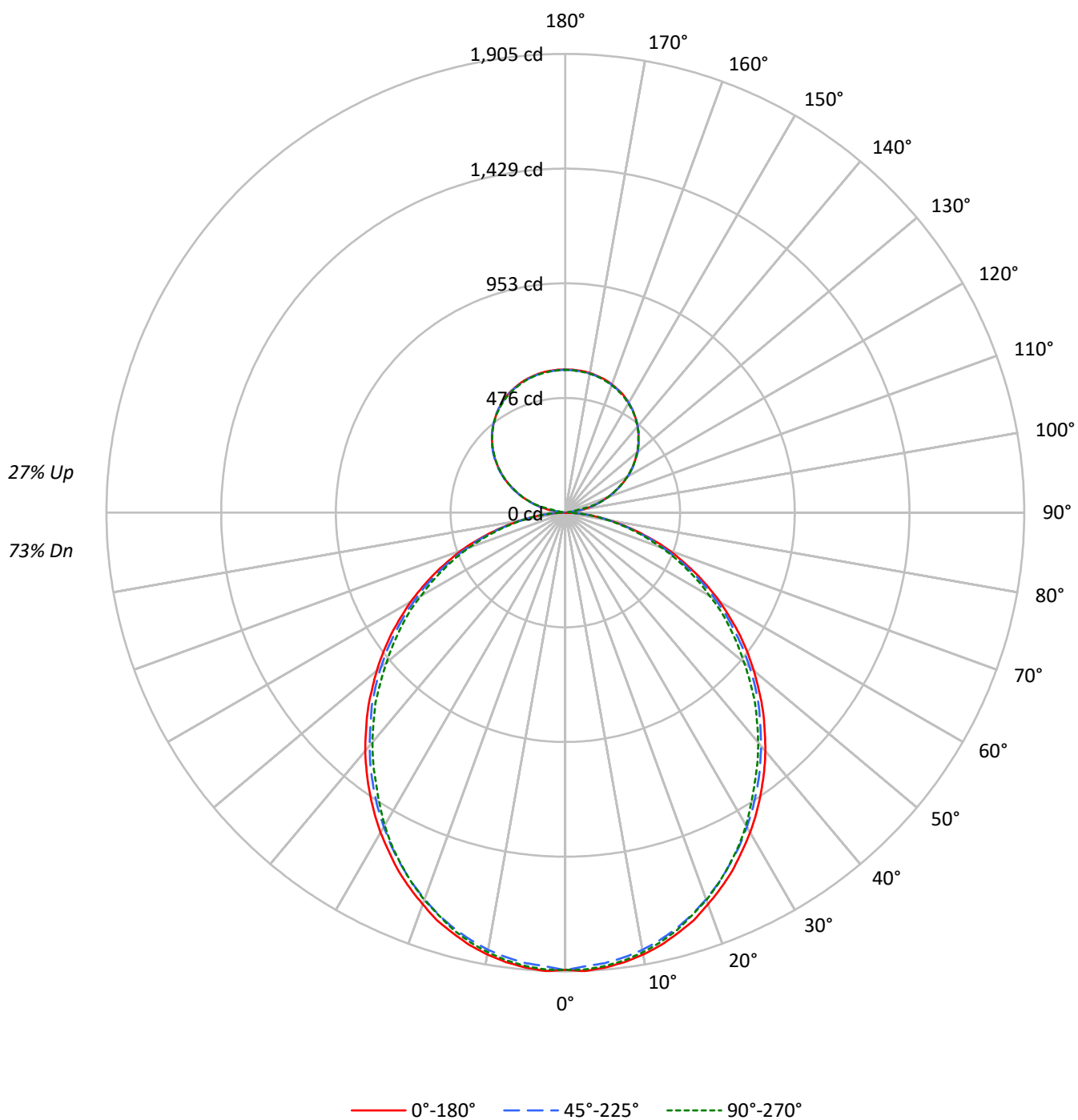
Lumens per Lamp: N/A
Luminaire Lumens: 6766.0 lumens
Efficiency: N/A
Efficacy: 90.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 74.5
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	82	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	76	68	62	81	72	65	59	65	60	55	59	55	51	53	50	47
4	78	67	59	52	74	64	56	51	58	52	47	53	48	44	48	44	40
5	72	60	51	45	68	57	49	44	52	46	41	47	42	38	43	39	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	34	43	36	31	39	34	29	36	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	31	25	22	28	24	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12168	12168	12168
5°	12168	11886	11908
10°	12068	11613	11577
15°	11910	11287	11186
20°	11695	10909	10738
25°	11465	10497	10258
30°	11187	10068	9753
35°	10891	9618	9186
40°	10585	9142	8683
45°	10254	8678	8148
50°	9889	8152	7525
55°	9529	7571	6951
60°	9098	6960	6284
65°	8583	6253	5594
70°	8060	5438	4798
75°	7178	4478	3880
80°	6117	3345	2854
85°	4723	1977	1572

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10254 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.2	2.6
10°-20°	506.2	7.5
20°-30°	747.3	11.0
30°-40°	871.9	12.9
40°-50°	875.7	12.9
50°-60°	768.7	11.4
60°-70°	572.6	8.5
70°-80°	327.0	4.8
80°-90°	95.3	1.4
90°-100°	20.1	0.3
100°-110°	133.9	2.0
110°-120°	241.1	3.6
120°-130°	309.4	4.6
130°-140°	332.8	4.9
140°-150°	312.4	4.6
150°-160°	252.7	3.7
160°-170°	163.4	2.4
170°-180°	56.4	0.8
0°-30°	1432.7	21.2
0°-40°	2304.6	34.1
0°-60°	3949.0	58.4
0°-90°	4943.9	73.1
90°-120°	395.1	5.8
90°-150°	1349.7	19.9
90°-180°	1822.0	26.9
0°-180°	6766.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1899	1899	1899	1899	1899	
5°	1896	1893	1878	1892	1890	180
15°	1808	1803	1786	1794	1794	510
25°	1641	1633	1614	1617	1612	755
35°	1417	1411	1390	1382	1370	886
45°	1160	1154	1136	1118	1113	894
55°	884	879	858	844	834	789
65°	596	594	577	563	557	592
75°	317	314	306	302	296	337
85°	83	84	84	83	80	90
90°	0	4	7	9	11	7
95°	25	24	7	9	9	31
105°	129	131	131	131	131	137
115°	243	245	245	244	241	241
125°	345	348	348	346	345	308
135°	430	433	432	431	429	332
145°	499	500	500	500	498	312
155°	550	547	548	549	546	253
165°	580	577	578	580	577	164
175°	593	590	591	594	590	56
180°	593	593	593	593	593	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1899.1	1899.1	1899.1	1899.1	1899.1
2.5°	1905.2	1900.6	1885.6	1900.6	1899.1
5°	1896.1	1893.1	1878.1	1891.6	1890.1
7.5°	1882.6	1879.6	1863.1	1876.6	1875.1
10°	1863.1	1860.1	1843.6	1855.6	1854.1
12.5°	1839.0	1833.0	1818.0	1827.0	1827.0
15°	1807.5	1803.0	1786.5	1794.0	1794.0
17.5°	1774.4	1766.9	1750.4	1759.4	1751.9
20°	1730.9	1727.9	1708.3	1718.8	1711.3
22.5°	1687.3	1681.3	1663.3	1669.3	1664.8
25°	1640.7	1633.2	1613.7	1616.7	1612.2
27.5°	1586.6	1582.1	1562.6	1564.1	1559.6
30°	1534.0	1529.5	1507.0	1504.0	1499.5
32.5°	1476.9	1469.4	1449.9	1443.9	1434.9
35°	1416.8	1410.8	1389.8	1382.3	1370.3
37.5°	1355.2	1347.7	1328.2	1317.7	1310.2
40°	1292.1	1284.6	1263.6	1250.1	1245.6
42.5°	1224.5	1218.5	1197.5	1185.5	1177.9
45°	1159.9	1153.9	1135.9	1117.8	1113.3
47.5°	1089.3	1090.8	1068.3	1050.2	1039.7
50°	1021.7	1017.2	999.2	979.6	969.1
52.5°	952.6	949.6	930.0	913.5	901.5
55°	883.5	879.0	857.9	844.4	833.9
57.5°	809.8	808.3	790.3	772.3	767.8
60°	740.7	734.7	718.2	703.2	692.6
62.5°	668.6	664.1	650.6	634.0	626.5
65°	596.5	593.5	577.0	563.4	557.4
67.5°	525.9	519.9	507.8	495.8	492.8
70°	459.8	452.2	438.7	429.7	423.7
72.5°	387.6	383.1	375.6	365.1	359.1
75°	317.0	314.0	306.5	302.0	296.0
77.5°	250.9	249.4	244.9	241.9	237.4
80°	189.3	189.3	186.3	184.8	181.8
82.5°	135.2	132.2	132.2	129.2	129.2
85°	82.6	84.1	84.1	82.6	79.6
87.5°	40.6	40.6	39.1	39.1	36.1
90°	0.4	4.0	7.0	9.2	10.6
92.5°	8.4	4.4	7.0	9.2	9.7
95°	25.1	23.7	7.0	9.2	9.2
97.5°	47.0	49.7	7.9	8.8	9.2
100°	73.4	74.8	76.5	11.0	9.2
102.5°	100.3	102.0	102.9	103.8	66.8
105°	129.3	131.0	131.0	131.0	130.6
107.5°	159.2	159.2	160.1	160.5	158.7
110°	188.2	188.2	189.1	187.8	188.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	215.5	216.8	217.2	215.5	214.6
115°	242.7	244.9	245.4	243.6	241.0
117.5°	271.3	271.3	273.1	270.4	269.5
120°	297.7	297.2	298.6	297.7	295.5
122.5°	321.0	323.2	323.6	322.8	320.1
125°	345.2	348.3	348.3	346.5	345.2
127.5°	368.5	370.7	370.2	369.4	365.8
130°	389.6	391.8	392.2	390.9	388.7
132.5°	410.7	413.3	412.0	412.0	409.8
135°	430.5	433.1	432.2	431.4	428.7
137.5°	449.0	451.6	450.7	450.7	448.5
140°	467.0	467.9	467.4	468.3	465.7
142.5°	483.2	483.7	484.6	484.6	481.9
145°	499.1	500.0	500.0	500.4	497.8
147.5°	513.2	513.2	513.6	514.0	511.0
150°	526.3	525.5	526.3	527.2	523.7
152.5°	539.1	536.9	537.8	538.7	535.6
155°	549.6	547.0	547.9	549.2	545.7
157.5°	558.0	556.7	556.7	558.0	554.5
160°	566.8	564.2	564.6	566.4	562.8
162.5°	573.8	571.2	571.6	574.3	570.3
165°	580.0	577.3	577.8	580.4	576.9
167.5°	584.8	582.2	582.6	585.7	581.7
170°	588.8	585.7	586.1	589.7	585.7
172.5°	591.4	588.3	589.2	592.3	588.3
175°	593.2	590.5	591.0	594.5	590.5
177.5°	594.5	591.9	592.3	595.4	591.9
180°	593.2	593.2	593.2	593.2	593.2

(END OF REPORT)