

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: P1034444

Luminaire Tested: S125DIW-B1270D470UB2750-4F0-XX-W2A-F1_5000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034444
REPORT IS A COMBINATION OF REPORTS P1003270 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-F1_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

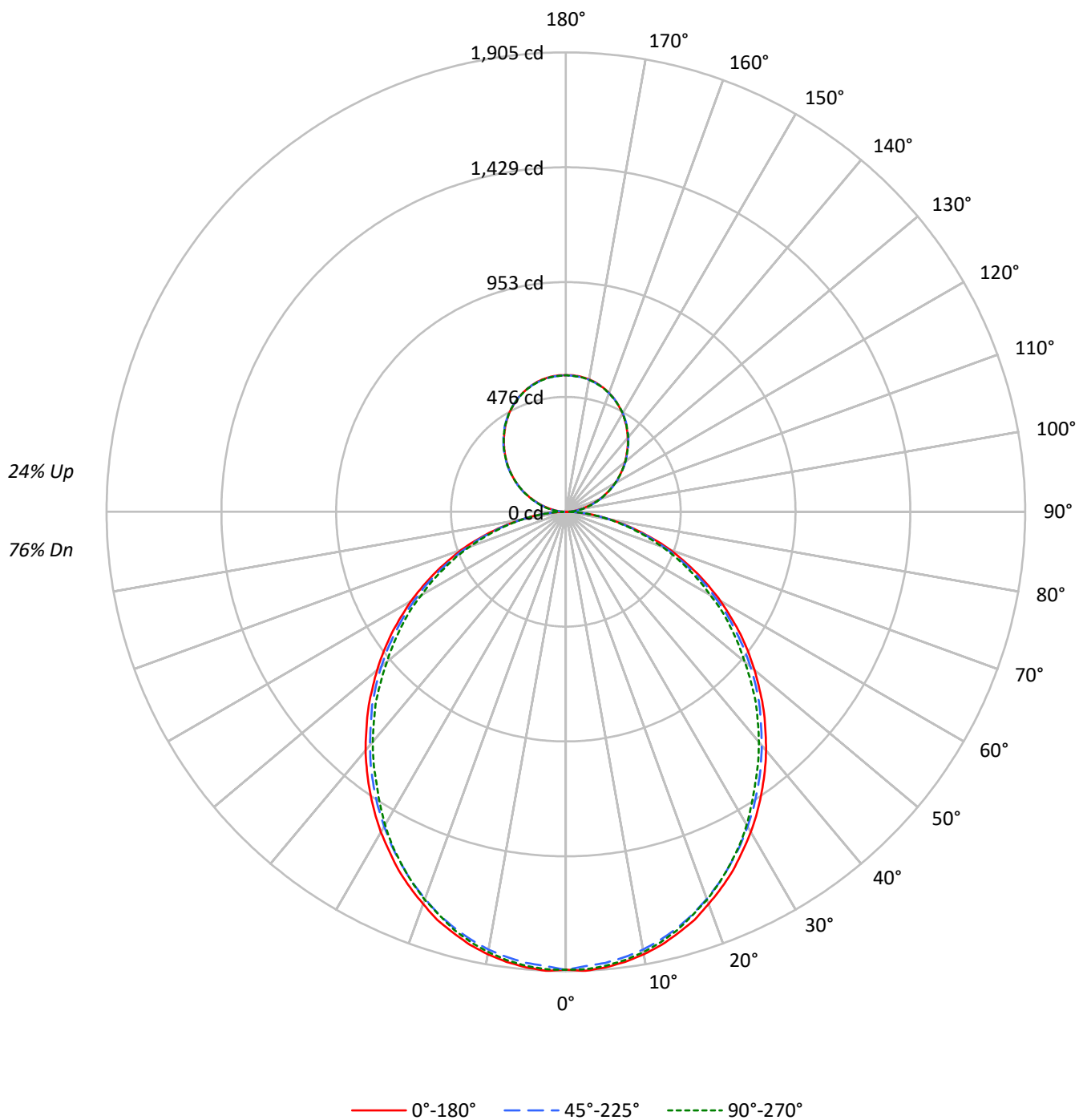
Lumens per Lamp: N/A
Luminaire Lumens: 6524.0 lumens
Efficiency: N/A
Efficacy: 87.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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	50	30	10
RCR																				
0	113	113	113	113	108	108	108	108	98	98	98	88	88	88	80	80	80	76		
1	103	99	95	91	98	94	91	87	86	83	80	78	76	74	70	69	67	64		
2	94	86	80	74	89	82	77	72	75	70	66	68	65	61	62	59	57	53		
3	86	76	68	62	82	73	66	60	66	61	56	60	56	52	55	51	48	45		
4	79	67	59	53	75	64	57	51	59	53	48	54	49	45	49	45	41	39		
5	72	60	52	45	69	58	50	44	53	46	41	48	43	39	44	40	36	34		
6	67	54	46	40	63	52	44	38	48	41	36	44	38	34	40	36	32	29		
7	62	49	41	35	59	47	39	34	43	37	32	40	34	30	37	32	28	26		
8	58	45	37	31	55	43	35	30	40	33	29	37	31	27	34	29	25	23		
9	54	41	33	28	51	39	32	27	36	30	26	34	28	24	31	26	23	21		
10	50	38	30	25	48	36	29	25	34	28	23	31	26	22	29	24	21	19		

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	2.7
10°-20°	506.2	7.8
20°-30°	747.3	11.5
30°-40°	871.9	13.4
40°-50°	875.7	13.4
50°-60°	768.7	11.8
60°-70°	572.6	8.8
70°-80°	327.0	5.0
80°-90°	95.3	1.5
90°-100°	37.7	0.6
100°-110°	111.8	1.7
110°-120°	189.7	2.9
120°-130°	249.7	3.8
130°-140°	279.8	4.3
140°-150°	274.3	4.2
150°-160°	230.4	3.5
160°-170°	153.1	2.3
170°-180°	53.6	0.8
0°-30°	1432.7	22.0
0°-40°	2304.6	35.3
0°-60°	3949.0	60.5
0°-90°	4943.9	75.8
90°-120°	339.2	5.2
90°-150°	1143.0	17.5
90°-180°	1580.0	24.2
0°-180°	6524.0	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°	29	30	34	37	38	30
105°	100	103	105	108	109	107
115°	190	192	192	192	192	188
125°	277	280	280	279	279	248
135°	360	363	364	364	362	278
145°	437	438	440	440	438	273
155°	500	500	500	502	500	230
165°	543	542	543	545	542	153
175°	565	563	563	566	563	54
180°	566	566	566	566	566	

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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	9.3	10.6
92.5°	13.2	15.4	19.4	22.5	23.4
95°	28.6	29.5	33.9	37.0	37.9
97.5°	44.1	44.5	50.7	53.3	53.8
100°	61.7	61.7	67.4	71.4	72.3
102.5°	80.6	82.8	85.0	89.4	90.8
105°	100.5	102.7	105.3	107.9	109.3
107.5°	122.0	124.2	126.5	127.8	127.8
110°	144.5	146.7	148.0	149.4	148.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	167.4	168.3	170.1	170.5	169.6
115°	189.9	191.7	192.5	192.1	191.7
117.5°	212.8	213.2	214.1	214.6	212.8
120°	234.0	236.2	236.6	236.6	234.8
122.5°	256.9	257.3	258.6	258.2	256.9
125°	277.1	279.8	280.2	279.3	278.9
127.5°	299.6	300.9	301.4	300.9	300.0
130°	319.4	321.6	322.5	322.1	321.2
132.5°	339.3	343.2	342.8	342.3	341.0
135°	360.4	363.1	363.5	363.5	361.7
137.5°	380.2	382.9	383.8	384.2	382.0
140°	399.2	401.4	402.7	403.6	401.4
142.5°	418.1	419.9	421.6	422.1	419.9
145°	436.6	438.4	439.7	439.7	438.4
147.5°	453.8	455.1	456.0	457.3	453.8
150°	471.0	470.6	472.3	472.3	471.4
152.5°	485.1	486.0	486.4	487.7	486.0
155°	499.6	499.6	500.1	501.8	499.6
157.5°	512.9	512.0	512.4	514.2	511.1
160°	524.3	523.0	523.4	525.2	523.0
162.5°	534.4	533.6	533.6	535.8	533.1
165°	543.3	542.4	542.8	544.6	541.9
167.5°	551.2	549.4	549.4	552.1	549.4
170°	557.4	555.6	555.6	558.2	555.1
172.5°	561.8	560.0	560.0	562.6	560.0
175°	564.8	563.1	563.1	565.7	562.6
177.5°	567.0	565.3	564.8	567.5	564.4
180°	566.2	566.2	566.2	566.2	566.2

(END OF REPORT)