

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: P1035231

Luminaire Tested: S125DIW-B1270D770UB50-4F0-XX-W2A-F

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035231
REPORT IS A COMBINATION OF REPORTS P1003376 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B1270D770UB50-4F0-XX-W2A-F
Description: Define 5 Direct/Indirect Wall Mount with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

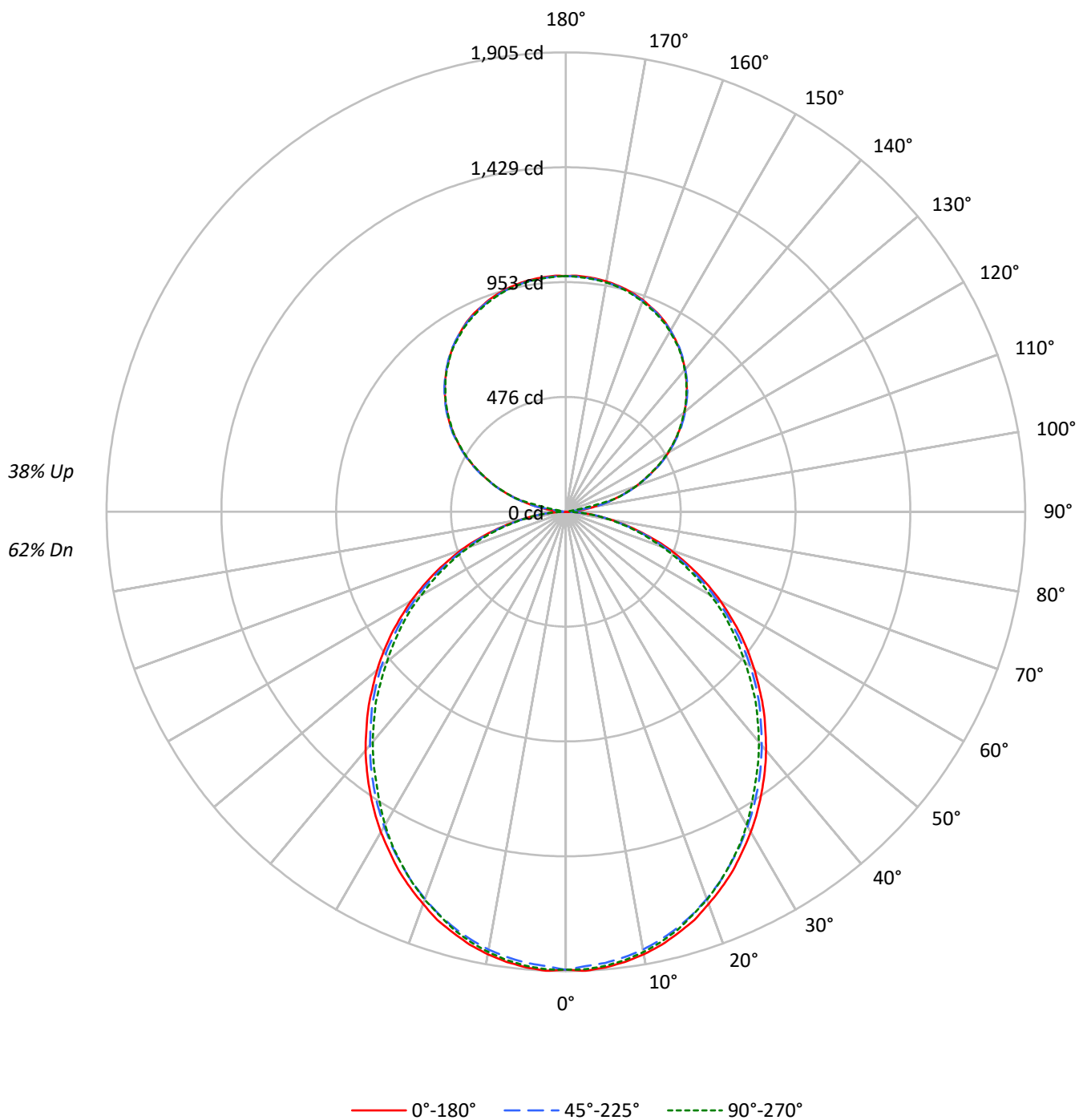
Lumens per Lamp: N/A
Luminaire Lumens: 7948.0 lumens
Efficiency: N/A
Efficacy: 94.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 84.5
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					0
RW	70	50	30	10		70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																					
0	110	110	110	110		103	103	103	103		90	90	90		78	78	78		67	67	67
1	100	96	92	88		94	90	87	83		79	76	74		69	67	65		59	58	57
2	91	84	78	72		85	79	73	68		69	65	61		60	57	54		52	50	48
3	83	74	66	60		78	69	63	57		61	56	51		53	49	46		46	43	41
4	76	65	57	51		71	61	54	49		54	48	44		48	43	39		41	38	35
5	70	58	50	44		65	55	47	42		49	43	38		43	38	34		37	34	30
6	65	52	44	38		60	49	42	36		44	38	33		39	34	30		34	30	27
7	60	47	39	33		56	45	37	32		40	34	29		35	30	27		31	27	24
8	56	43	35	30		52	41	33	28		36	30	26		32	27	24		28	24	21
9	52	39	32	26		49	37	30	25		33	27	23		30	25	21		26	22	19
10	48	36	29	24		45	34	27	23		31	25	21		27	23	19		24	20	18

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	2.3
10°-20°	506.2	6.4
20°-30°	747.3	9.4
30°-40°	871.9	11.0
40°-50°	875.7	11.0
50°-60°	768.7	9.7
60°-70°	572.6	7.2
70°-80°	327.0	4.1
80°-90°	95.8	1.2
90°-100°	33.2	0.4
100°-110°	220.7	2.8
110°-120°	397.4	5.0
120°-130°	510.1	6.4
130°-140°	548.6	6.9
140°-150°	514.9	6.5
150°-160°	416.5	5.2
160°-170°	269.4	3.4
170°-180°	92.9	1.2
0°-30°	1432.7	18.0
0°-40°	2304.6	29.0
0°-60°	3949.0	49.7
0°-90°	4944.4	62.2
90°-120°	651.2	8.2
90°-150°	2224.8	28.0
90°-180°	3004.0	37.8
0°-180°	7948.0	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°	1	6	12	15	17	8
95°	41	39	12	15	15	51
105°	213	216	216	216	215	226
115°	400	404	404	402	397	397
125°	569	574	574	571	569	508
135°	710	714	712	711	707	547
145°	823	824	824	825	820	515
155°	906	902	903	905	900	417
165°	956	952	952	957	951	270
175°	978	973	974	980	973	93
180°	978	978	978	978	978	

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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°	0.7	6.5	11.6	15.2	17.4
92.5°	13.8	7.2	11.6	15.2	15.9
95°	41.3	39.1	11.6	15.2	15.2
97.5°	77.6	81.9	13.0	14.5	15.2
100°	121.0	123.2	126.1	18.1	15.2
102.5°	165.3	168.2	169.6	171.1	110.2
105°	213.1	216.0	216.0	216.0	215.3
107.5°	262.4	262.4	263.8	264.6	261.7
110°	310.2	310.2	311.7	309.5	310.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	355.2	357.3	358.1	355.2	353.7
115°	400.1	403.7	404.5	401.6	397.2
117.5°	447.2	447.2	450.1	445.8	444.3
120°	490.7	490.0	492.2	490.7	487.1
122.5°	529.1	532.7	533.5	532.0	527.7
125°	569.0	574.1	574.1	571.2	569.0
127.5°	607.4	611.0	610.3	608.9	603.1
130°	642.2	645.8	646.5	644.4	640.7
132.5°	677.0	681.3	679.2	679.2	675.5
135°	709.6	713.9	712.5	711.1	706.7
137.5°	740.0	744.4	742.9	742.9	739.3
140°	769.8	771.2	770.5	771.9	767.6
142.5°	796.6	797.3	798.8	798.8	794.4
145°	822.7	824.1	824.1	824.8	820.5
147.5°	845.9	845.9	846.6	847.3	842.2
150°	867.6	866.2	867.6	869.1	863.3
152.5°	888.6	885.0	886.5	887.9	882.8
155°	906.0	901.7	903.1	905.3	899.5
157.5°	919.8	917.6	917.6	919.8	914.0
160°	934.3	929.9	930.7	933.6	927.8
162.5°	945.9	941.5	942.3	946.6	940.1
165°	956.0	951.7	952.4	956.8	951.0
167.5°	964.0	959.7	960.4	965.5	958.9
170°	970.5	965.5	966.2	972.0	965.5
172.5°	974.9	969.8	971.3	976.3	969.8
175°	977.8	973.4	974.2	980.0	973.4
177.5°	980.0	975.6	976.3	981.4	975.6
180°	977.8	977.8	977.8	977.8	977.8

(END OF REPORT)