

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: P1034459

Luminaire Tested: S125DIW-B1270D770UB2750-4F0-XX-W2A-F1_5000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034459
REPORT IS A COMBINATION OF REPORTS P1003336 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B1270D770UB2750-4F0-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

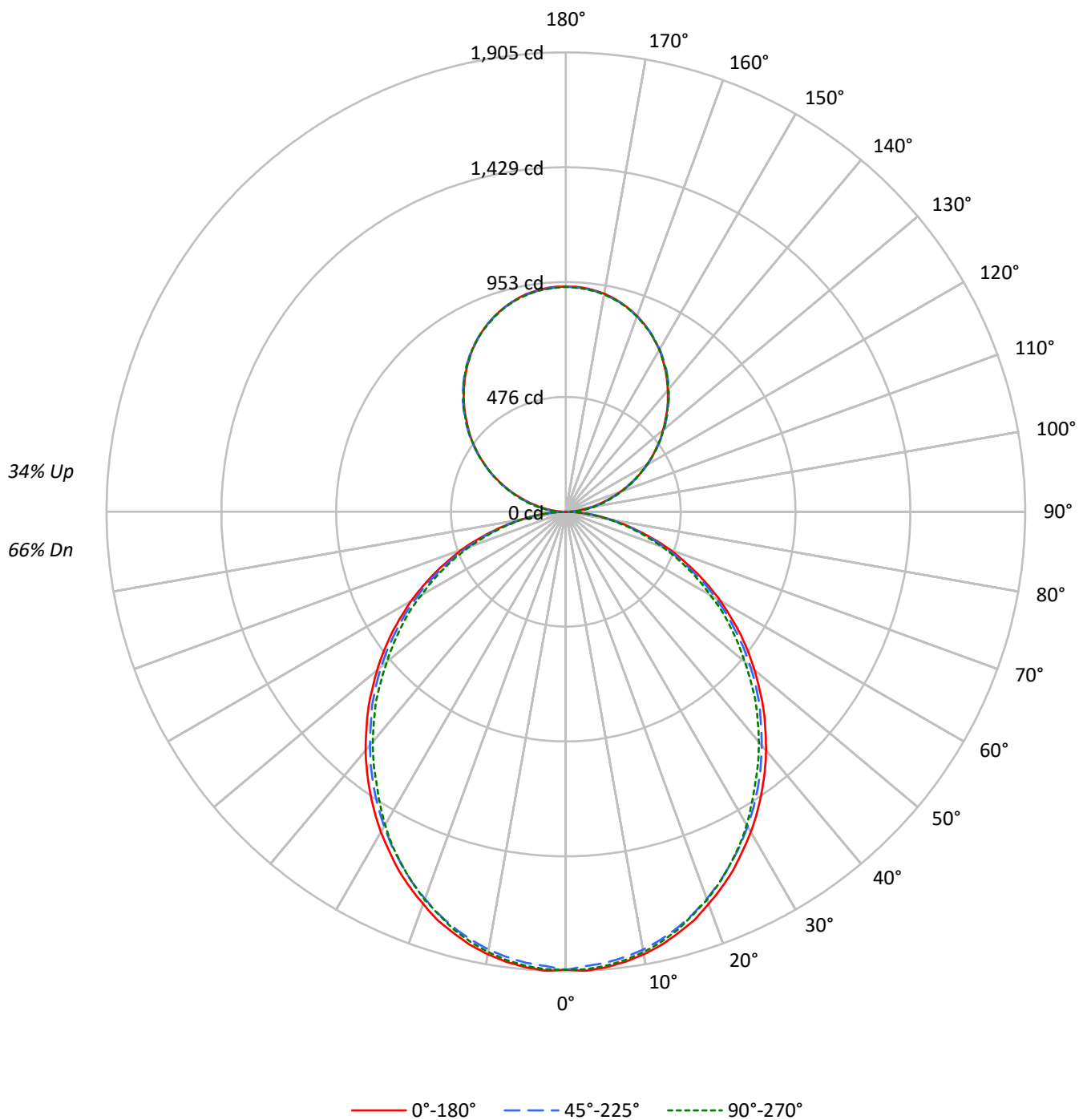
Lumens per Lamp: N/A
Luminaire Lumens: 7547.9 lumens
Efficiency: N/A
Efficacy: 89.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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	111	111	111	111	104	104	104	104	92	92	92	81	81	81	70	70	70
1	101	97	93	89	95	91	88	84	81	78	76	71	69	67	62	61	59
2	92	84	78	73	86	80	74	69	71	66	62	62	59	56	55	52	50
3	84	74	67	61	79	70	63	58	62	57	53	55	51	47	48	45	42
4	77	66	58	51	72	62	55	49	55	49	45	49	44	41	43	40	37
5	71	59	50	44	66	56	48	42	50	43	39	44	39	35	39	35	32
6	65	53	44	38	61	50	42	37	45	39	34	40	35	31	35	31	28
7	60	48	39	34	57	45	38	32	41	34	30	36	31	27	32	28	25
8	56	43	35	30	53	41	34	29	37	31	27	33	28	25	30	26	22
9	52	40	32	27	49	38	31	26	34	28	24	31	26	22	27	23	20
10	49	37	29	24	46	35	28	23	31	26	22	28	23	20	25	21	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	2.4
10°-20°	506.2	6.7
20°-30°	747.3	9.9
30°-40°	871.9	11.6
40°-50°	875.7	11.6
50°-60°	768.7	10.2
60°-70°	572.6	7.6
70°-80°	327.0	4.3
80°-90°	95.8	1.3
90°-100°	62.0	0.8
100°-110°	184.3	2.4
110°-120°	312.5	4.1
120°-130°	411.4	5.5
130°-140°	461.1	6.1
140°-150°	451.9	6.0
150°-160°	379.6	5.0
160°-170°	252.3	3.3
170°-180°	88.3	1.2
0°-30°	1432.7	19.0
0°-40°	2304.6	30.5
0°-60°	3949.0	52.3
0°-90°	4944.4	65.5
90°-120°	558.8	7.4
90°-150°	1883.3	25.0
90°-180°	2603.0	34.5
0°-180°	7547.9	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	9
95°	47	49	56	61	62	49
105°	166	169	174	178	180	176
115°	313	316	317	316	316	310
125°	457	461	462	460	460	409
135°	594	598	599	599	596	458
145°	719	722	724	724	722	450
155°	823	823	824	827	823	379
165°	895	894	894	897	893	253
175°	931	928	928	932	927	88
180°	933	933	933	933	933	

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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°	21.8	25.4	31.9	37.0	38.5
95°	47.2	48.6	55.9	61.0	62.4
97.5°	72.6	73.3	83.5	87.8	88.6
100°	101.6	101.6	111.1	117.6	119.1
102.5°	132.9	136.5	140.1	147.4	149.5
105°	165.5	169.1	173.5	177.9	180.0
107.5°	201.1	204.7	208.4	210.5	210.5
110°	238.1	241.7	243.9	246.1	245.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	275.9	277.3	280.2	280.9	279.5
115°	312.9	315.8	317.2	316.5	315.8
117.5°	350.6	351.4	352.8	353.5	350.6
120°	385.5	389.1	389.8	389.8	386.9
122.5°	423.2	424.0	426.1	425.4	423.2
125°	456.6	461.0	461.7	460.3	459.5
127.5°	493.7	495.8	496.6	495.8	494.4
130°	526.3	530.0	531.4	530.7	529.2
132.5°	559.0	565.5	564.8	564.1	561.9
135°	593.8	598.2	598.9	598.9	596.0
137.5°	626.5	630.9	632.3	633.0	629.4
140°	657.7	661.4	663.5	665.0	661.4
142.5°	688.9	691.8	694.7	695.5	691.8
145°	719.4	722.3	724.5	724.5	722.3
147.5°	747.7	749.9	751.4	753.6	747.7
150°	776.1	775.3	778.2	778.2	776.8
152.5°	799.3	800.7	801.5	803.6	800.7
155°	823.2	823.2	824.0	826.9	823.2
157.5°	845.0	843.6	844.3	847.2	842.1
160°	863.9	861.7	862.4	865.3	861.7
162.5°	880.6	879.1	879.1	882.8	878.4
165°	895.1	893.7	894.4	897.3	892.9
167.5°	908.2	905.3	905.3	909.6	905.3
170°	918.3	915.4	915.4	919.8	914.7
172.5°	925.6	922.7	922.7	927.1	922.7
175°	930.7	927.8	927.8	932.1	927.1
177.5°	934.3	931.4	930.7	935.0	930.0
180°	932.9	932.9	932.9	932.9	932.9

(END OF REPORT)