

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: P1035794

Luminaire Tested: S125RDIW-B1270D1340UB27-4F0-XX-W2A-F

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035794
REPORT IS A COMBINATION OF REPORTS P1006186 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIW-B1270D1340UB27-4F0-XX-W2A-F
Description: Define 5 Regressed Direct/Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473}
{m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

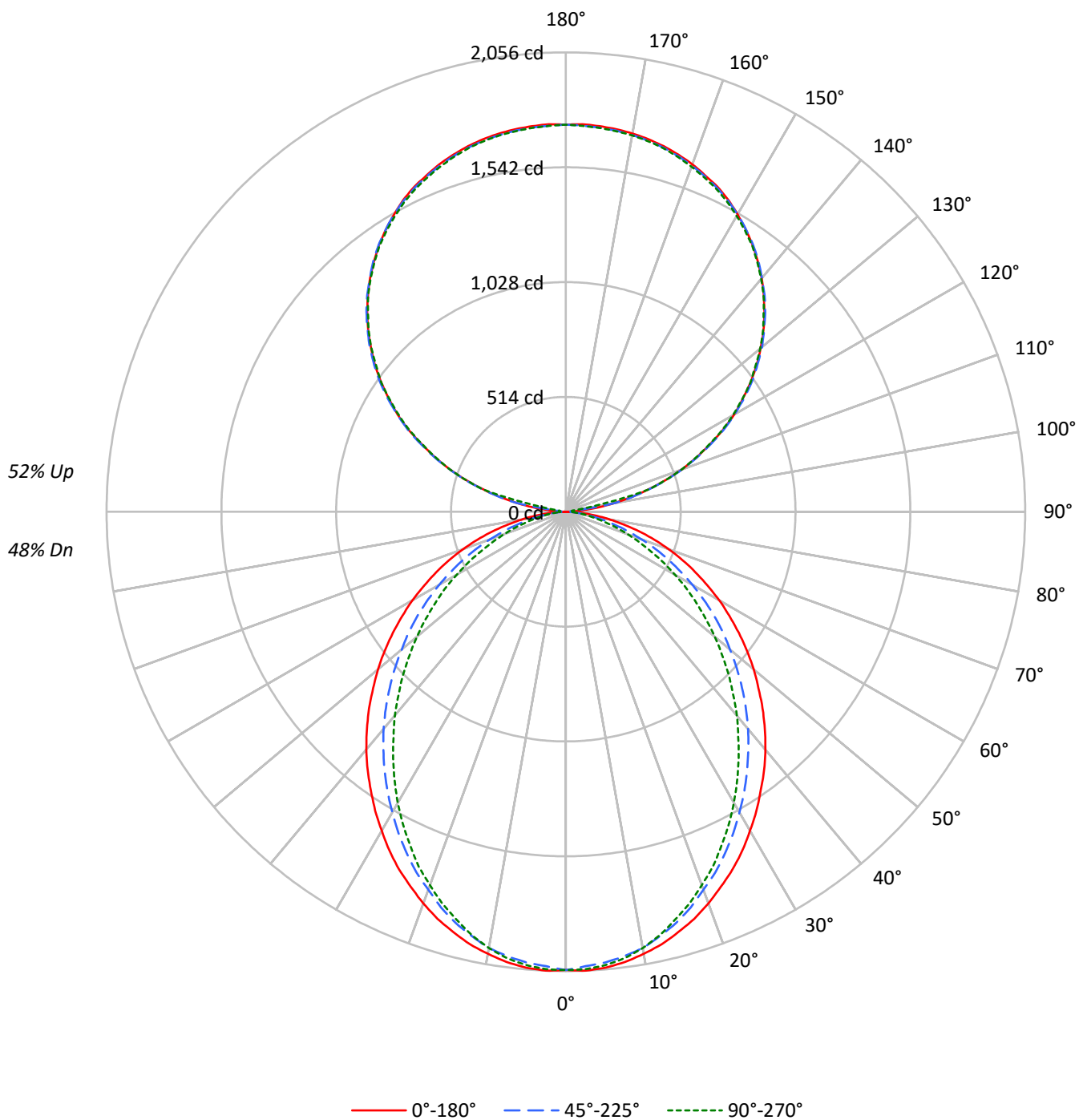
Lumens per Lamp: N/A
Luminaire Lumens: 10170.0 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 103.4
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	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54
1	97	93	89	86	90	86	83	80	72	70	68	60	58	57	48	47	46
2	89	82	76	71	82	75	70	66	64	60	56	53	50	48	43	41	39
3	81	72	65	59	74	66	60	55	56	52	48	47	43	40	38	35	33
4	74	64	56	50	68	59	52	47	50	45	41	42	38	35	34	31	29
5	68	57	49	43	63	53	46	40	45	39	35	37	33	30	31	28	25
6	63	51	43	37	58	47	40	35	40	35	31	34	30	27	28	25	22
7	58	46	38	33	53	43	36	31	37	31	27	31	27	24	25	22	20
8	54	42	34	29	50	39	32	27	33	28	24	28	24	21	23	20	18
9	50	38	31	26	46	36	29	24	31	25	22	26	22	19	22	19	16
10	47	35	28	23	43	33	26	22	28	23	20	24	20	17	20	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13142	13142	13142
5°	13143	12814	12834
10°	13015	12491	12381
15°	12831	12039	11785
20°	12603	11495	11159
25°	12341	10964	10488
30°	12021	10380	9784
35°	11694	9788	9036
40°	11384	9179	8305
45°	11010	8521	7540
50°	10632	7823	6760
55°	10192	7137	5954
60°	9742	6351	5116
65°	9206	5473	4213
70°	8580	4455	3316
75°	7717	3350	2417
80°	6508	2169	1630
85°	4871	1166	919

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 11010 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.0	1.9
10°-20°	539.5	5.3
20°-30°	782.2	7.7
30°-40°	891.2	8.8
40°-50°	868.6	8.5
50°-60°	731.0	7.2
60°-70°	512.3	5.0
70°-80°	262.6	2.6
80°-90°	68.1	0.7
90°-100°	58.8	0.6
100°-110°	391.0	3.8
110°-120°	704.1	6.9
120°-130°	903.7	8.9
130°-140°	972.0	9.6
140°-150°	912.2	9.0
150°-160°	737.9	7.3
160°-170°	477.2	4.7
170°-180°	164.6	1.6
0°-30°	1514.8	14.9
0°-40°	2405.9	23.7
0°-60°	4005.6	39.4
0°-90°	4848.6	47.7
90°-120°	1153.8	11.3
90°-150°	3941.7	38.8
90°-180°	5321.0	52.3
0°-180°	10170.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2051	2051	2051	2051	2051	
5°	2048	2042	2025	2040	2037	194
15°	1947	1938	1906	1904	1890	549
25°	1766	1743	1686	1665	1648	813
35°	1521	1484	1414	1370	1348	953
45°	1246	1201	1115	1053	1030	961
55°	945	895	809	739	714	845
65°	640	587	505	443	420	634
75°	341	294	229	195	184	360
85°	85	57	50	48	46	93
90°	1	12	20	27	31	9
95°	73	69	20	27	27	90
105°	378	383	383	383	381	400
115°	709	715	717	711	704	703
125°	1008	1017	1017	1012	1008	900
135°	1257	1265	1262	1260	1252	969
145°	1458	1460	1460	1461	1454	912
155°	1605	1598	1600	1604	1594	740
165°	1694	1686	1687	1695	1685	478
175°	1732	1725	1726	1736	1725	165
180°	1732	1732	1732	1732	1732	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2051.1	2051.1	2051.1	2051.1	2051.1
2.5°	2055.7	2051.1	2035.6	2051.1	2049.5
5°	2048.0	2041.8	2024.8	2040.2	2037.1
7.5°	2032.5	2026.3	2006.2	2018.6	2015.5
10°	2009.3	2004.6	1982.9	1987.6	1982.9
12.5°	1982.9	1976.7	1945.7	1948.8	1941.1
15°	1947.3	1938.0	1905.5	1903.9	1890.0
17.5°	1910.1	1896.2	1857.4	1849.7	1838.9
20°	1865.2	1849.7	1800.1	1792.4	1778.4
22.5°	1815.6	1800.1	1747.5	1730.4	1719.6
25°	1766.0	1742.8	1685.5	1665.4	1648.3
27.5°	1710.3	1682.4	1622.0	1595.6	1578.6
30°	1648.3	1618.9	1553.8	1518.2	1504.2
32.5°	1587.9	1552.3	1485.6	1445.4	1426.8
35°	1521.3	1484.1	1414.4	1369.5	1347.8
37.5°	1457.8	1412.8	1341.6	1288.9	1267.2
40°	1389.6	1343.1	1268.8	1209.9	1191.3
42.5°	1318.3	1270.3	1192.9	1137.1	1107.7
45°	1245.5	1200.6	1115.4	1053.4	1030.2
47.5°	1169.6	1123.1	1037.9	974.4	948.1
50°	1098.4	1047.2	958.9	893.9	870.6
52.5°	1020.9	968.2	886.1	814.9	791.6
55°	945.0	895.4	808.7	739.0	714.2
57.5°	867.5	814.9	731.2	663.0	641.4
60°	793.2	739.0	655.3	587.1	563.9
62.5°	714.2	663.0	577.8	515.9	492.6
65°	639.8	587.1	505.0	443.1	419.8
67.5°	565.4	512.8	433.8	374.9	356.3
70°	489.5	436.9	359.4	311.4	292.8
72.5°	415.2	364.1	292.8	249.4	238.6
75°	340.8	294.3	229.3	195.2	184.4
77.5°	264.9	227.7	173.5	147.2	137.9
80°	201.4	164.2	120.8	106.9	103.8
82.5°	139.4	106.9	80.6	75.9	74.4
85°	85.2	57.3	49.6	48.0	46.5
87.5°	35.6	24.8	23.2	23.2	21.7
90°	1.3	11.6	20.5	27.0	30.8
92.5°	24.4	12.8	20.5	27.0	28.3
95°	73.2	69.3	20.5	27.0	27.0
97.5°	137.4	145.1	23.1	25.7	27.0
100°	214.5	218.3	223.4	32.1	27.0
102.5°	292.8	297.9	300.5	303.1	195.2
105°	377.5	382.7	382.7	382.7	381.4
107.5°	464.9	464.9	467.4	468.7	463.6
110°	549.6	549.6	552.2	548.3	549.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	629.2	633.1	634.4	629.2	626.7
115°	708.9	715.3	716.6	711.4	703.7
117.5°	792.3	792.3	797.5	789.8	787.2
120°	869.4	868.1	872.0	869.4	863.0
122.5°	937.4	943.9	945.2	942.6	934.9
125°	1008.1	1017.1	1017.1	1011.9	1008.1
127.5°	1076.1	1082.6	1081.3	1078.7	1068.4
130°	1137.8	1144.2	1145.5	1141.6	1135.2
132.5°	1199.4	1207.1	1203.3	1203.3	1196.9
135°	1257.2	1264.9	1262.3	1259.8	1252.1
137.5°	1311.1	1318.9	1316.3	1316.3	1309.9
140°	1363.8	1366.4	1365.1	1367.6	1359.9
142.5°	1411.3	1412.6	1415.2	1415.2	1407.5
145°	1457.5	1460.1	1460.1	1461.4	1453.7
147.5°	1498.6	1498.6	1499.9	1501.2	1492.2
150°	1537.2	1534.6	1537.2	1539.7	1529.5
152.5°	1574.4	1568.0	1570.5	1573.1	1564.1
155°	1605.2	1597.5	1600.1	1603.9	1593.7
157.5°	1629.6	1625.8	1625.8	1629.6	1619.3
160°	1655.3	1647.6	1648.9	1654.0	1643.7
162.5°	1675.9	1668.1	1669.4	1677.1	1665.6
165°	1693.8	1686.1	1687.4	1695.1	1684.8
167.5°	1708.0	1700.3	1701.5	1710.5	1699.0
170°	1719.5	1710.5	1711.8	1722.1	1710.5
172.5°	1727.2	1718.2	1720.8	1729.8	1718.2
175°	1732.4	1724.7	1725.9	1736.2	1724.7
177.5°	1736.2	1728.5	1729.8	1738.8	1728.5
180°	1732.4	1732.4	1732.4	1732.4	1732.4

(END OF REPORT)