

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: P1035832

Luminaire Tested: S125RDIW-B1270D470UB27-4F0-XX-W2A-F

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035832
REPORT IS A COMBINATION OF REPORTS P1006274 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIW-B1270D470UB27-4F0-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

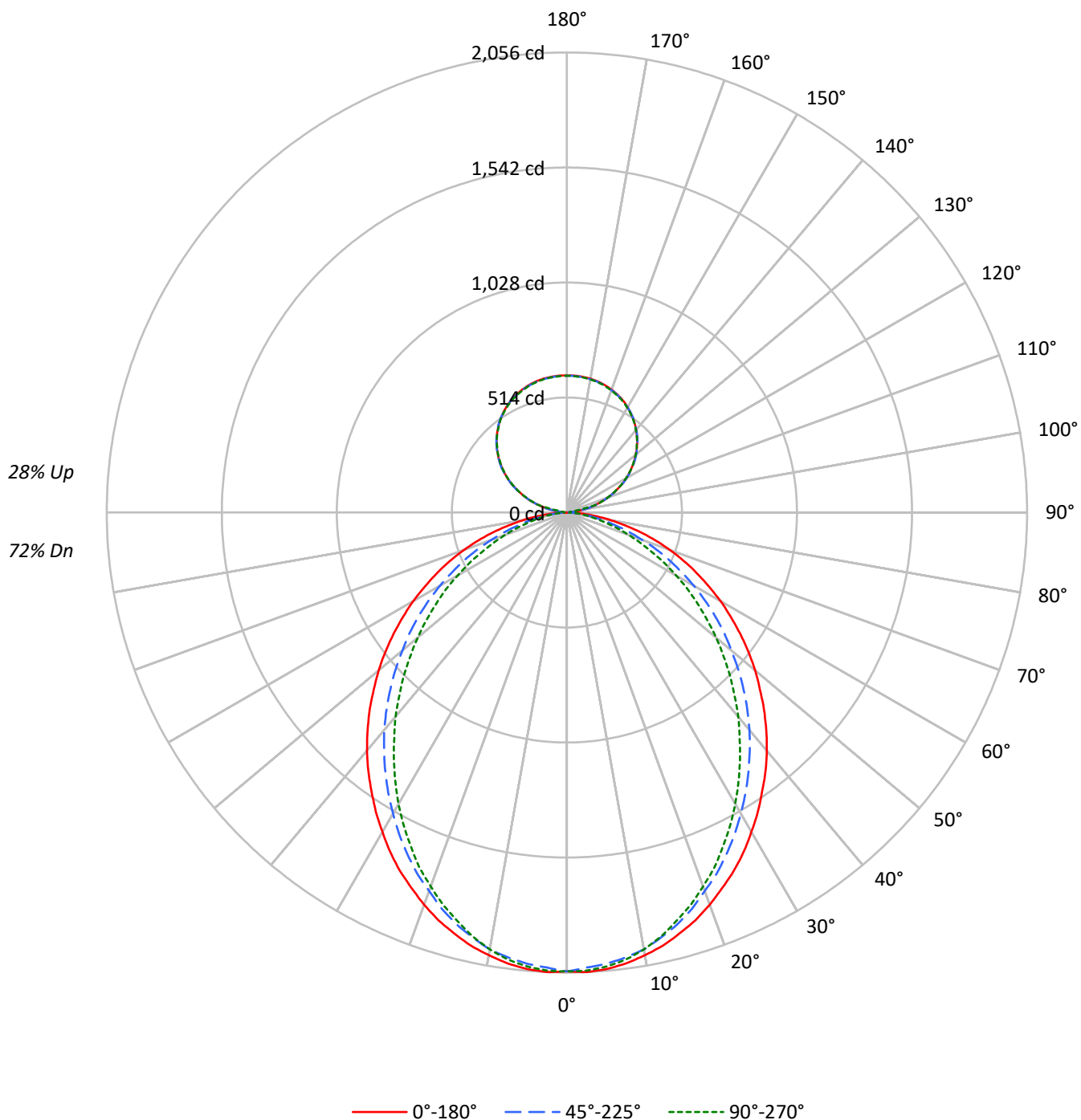
Lumens per Lamp: N/A
Luminaire Lumens: 6726.0 lumens
Efficiency: N/A
Efficacy: 90.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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	112	112	112	112	107	107	107	107	96	96	96	86	86	86	76	76	76
1	103	99	95	91	98	94	90	87	84	82	79	76	74	72	68	67	65
2	94	87	80	75	89	82	77	72	74	70	66	67	64	61	60	58	55
3	86	76	69	63	81	73	66	61	66	61	56	60	55	52	54	50	48
4	79	68	60	54	75	65	57	52	59	53	48	53	49	45	48	44	41
5	73	61	52	46	69	58	50	45	53	47	42	48	43	39	44	39	36
6	67	55	46	41	63	52	45	39	48	41	37	44	38	34	40	35	32
7	62	50	42	36	59	48	40	35	44	37	33	40	34	31	36	32	28
8	58	45	37	32	55	43	36	31	40	34	29	37	31	27	33	29	26
9	54	42	34	29	51	40	33	28	37	31	26	34	28	25	31	26	23
10	51	38	31	26	48	37	30	25	34	28	24	31	26	23	29	24	21

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	2.9
10°-20°	539.5	8.0
20°-30°	782.2	11.6
30°-40°	891.2	13.2
40°-50°	868.6	12.9
50°-60°	731.0	10.9
60°-70°	512.3	7.6
70°-80°	262.6	3.9
80°-90°	66.4	1.0
90°-100°	20.8	0.3
100°-110°	138.1	2.1
110°-120°	248.6	3.7
120°-130°	319.1	4.7
130°-140°	343.2	5.1
140°-150°	322.1	4.8
150°-160°	260.6	3.9
160°-170°	168.5	2.5
170°-180°	58.1	0.9
0°-30°	1514.8	22.5
0°-40°	2405.9	35.8
0°-60°	4005.6	59.6
0°-90°	4846.9	72.1
90°-120°	407.4	6.1
90°-150°	1391.9	20.7
90°-180°	1879.0	27.9
0°-180°	6726.0	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°	0	4	7	10	11	6
95°	26	24	7	10	10	32
105°	133	135	135	135	135	141
115°	250	253	253	251	248	248
125°	356	359	359	357	356	318
135°	444	447	446	445	442	342
145°	515	516	516	516	513	322
155°	567	564	565	566	563	261
165°	598	595	596	599	595	169
175°	612	609	610	613	609	58
180°	612	612	612	612	612	

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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°	0.5	4.1	7.3	9.5	10.9
92.5°	8.6	4.5	7.3	9.5	10.0
95°	25.8	24.5	7.3	9.5	9.5
97.5°	48.5	51.2	8.2	9.1	9.5
100°	75.7	77.1	78.9	11.3	9.5
102.5°	103.4	105.2	106.1	107.0	68.9
105°	133.3	135.1	135.1	135.1	134.7
107.5°	164.2	164.2	165.1	165.5	163.7
110°	194.1	194.1	195.0	193.6	194.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	222.2	223.6	224.0	222.2	221.3
115°	250.3	252.6	253.0	251.2	248.5
117.5°	279.8	279.8	281.6	278.9	278.0
120°	307.0	306.5	307.9	307.0	304.7
122.5°	331.0	333.3	333.8	332.8	330.1
125°	356.0	359.1	359.1	357.3	356.0
127.5°	380.0	382.3	381.8	380.9	377.3
130°	401.8	404.0	404.5	403.1	400.9
132.5°	423.5	426.3	424.9	424.9	422.6
135°	443.9	446.7	445.8	444.9	442.1
137.5°	463.0	465.7	464.8	464.8	462.5
140°	481.6	482.5	482.0	482.9	480.2
142.5°	498.4	498.8	499.7	499.7	497.0
145°	514.7	515.6	515.6	516.0	513.3
147.5°	529.2	529.2	529.6	530.1	526.9
150°	542.8	541.9	542.8	543.7	540.1
152.5°	555.9	553.7	554.6	555.5	552.3
155°	566.8	564.1	565.0	566.4	562.8
157.5°	575.4	574.1	574.1	575.4	571.8
160°	584.5	581.8	582.3	584.1	580.4
162.5°	591.8	589.1	589.5	592.2	588.1
165°	598.1	595.4	595.9	598.6	594.9
167.5°	603.1	600.4	600.8	604.0	599.9
170°	607.2	604.0	604.5	608.1	604.0
172.5°	609.9	606.7	607.6	610.8	606.7
175°	611.7	609.0	609.5	613.1	609.0
177.5°	613.1	610.4	610.8	614.0	610.4
180°	611.7	611.7	611.7	611.7	611.7

(END OF REPORT)