

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: P1035177

Luminaire Tested: S125DIW-B1270D470UB27-4F0-XX-W2A-F

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035177
REPORT IS A COMBINATION OF REPORTS P1003253 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B1270D470UB27-4F0-XX-W2A-F
Description: Define 5 Direct/Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

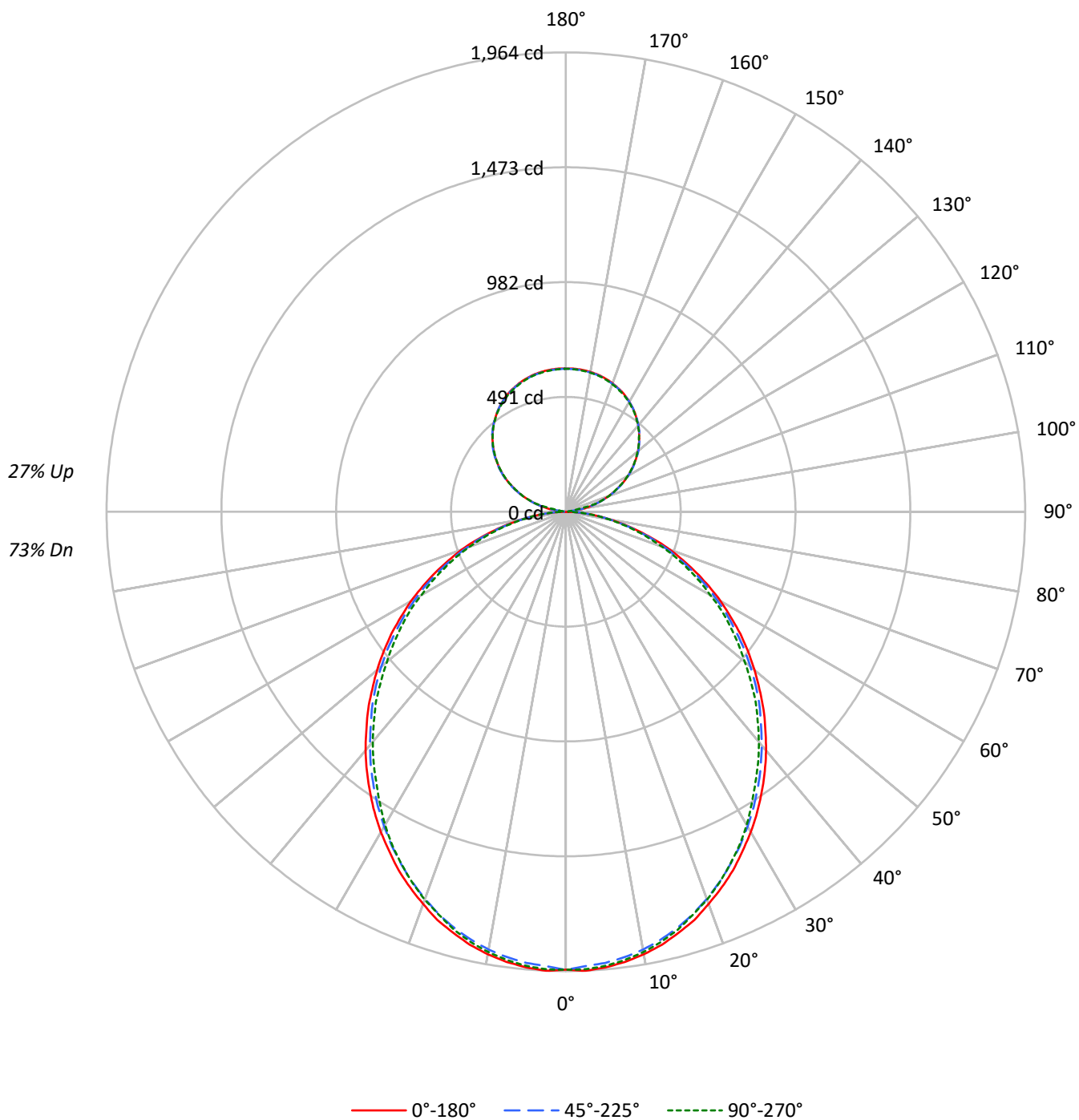
Lumens per Lamp: N/A
Luminaire Lumens: 6976.0 lumens
Efficiency: N/A
Efficacy: 93.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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
RCR																	
0	113	113	113	113	107	107	107	107	96	96	96	86	86	86	77	77	77
1	103	98	94	91	97	93	90	87	84	82	79	76	74	72	68	67	65
2	94	86	79	74	89	82	76	71	74	69	65	67	63	60	60	57	55
3	85	76	68	62	81	72	65	59	65	60	55	59	55	51	53	50	47
4	78	67	59	52	74	64	56	51	58	52	47	53	48	44	48	44	40
5	72	60	51	45	68	57	49	44	52	46	41	47	42	38	43	39	35
6	66	54	45	39	63	51	44	38	47	40	36	43	37	33	39	34	31
7	61	49	40	35	58	47	39	34	43	36	31	39	34	29	36	31	27
8	57	44	36	31	54	42	35	30	39	33	28	36	30	26	33	28	25
9	53	41	33	28	51	39	32	27	36	30	25	33	28	24	30	26	22
10	50	37	30	25	47	36	29	24	33	27	23	31	25	22	28	24	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12544	12544	12544
5°	12545	12253	12277
10°	12442	11972	11935
15°	12278	11637	11532
20°	12057	11247	11070
25°	11820	10822	10576
30°	11534	10379	10055
35°	11228	9915	9471
40°	10913	9424	8952
45°	10571	8946	8400
50°	10195	8404	7757
55°	9823	7806	7166
60°	9380	7176	6479
65°	8848	6446	5768
70°	8309	5607	4947
75°	7400	4617	4000
80°	6308	3449	2942
85°	4871	2039	1622

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10571 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.8	2.6
10°-20°	521.9	7.5
20°-30°	770.4	11.0
30°-40°	898.9	12.9
40°-50°	902.8	12.9
50°-60°	792.5	11.4
60°-70°	590.3	8.5
70°-80°	337.1	4.8
80°-90°	98.2	1.4
90°-100°	20.8	0.3
100°-110°	138.1	2.0
110°-120°	248.6	3.6
120°-130°	319.1	4.6
130°-140°	343.2	4.9
140°-150°	322.1	4.6
150°-160°	260.6	3.7
160°-170°	168.5	2.4
170°-180°	58.1	0.8
0°-30°	1477.1	21.2
0°-40°	2376.0	34.1
0°-60°	4071.3	58.4
0°-90°	5096.9	73.1
90°-120°	407.4	5.8
90°-150°	1391.9	20.0
90°-180°	1879.0	26.9
0°-180°	6976.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1958	1958	1958	1958	1958	
5°	1955	1952	1936	1950	1949	186
15°	1863	1859	1842	1850	1850	525
25°	1692	1684	1664	1667	1662	778
35°	1461	1454	1433	1425	1413	914
45°	1196	1190	1171	1152	1148	921
55°	911	906	884	870	860	813
65°	615	612	595	581	575	610
75°	327	324	316	311	305	348
85°	85	87	87	85	82	93
90°	0	4	7	10	11	7
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°	1957.9	1957.9	1957.9	1957.9	1957.9
2.5°	1964.1	1959.5	1944.0	1959.5	1957.9
5°	1954.8	1951.7	1936.2	1950.2	1948.6
7.5°	1940.9	1937.8	1920.8	1934.7	1933.1
10°	1920.8	1917.7	1900.6	1913.0	1911.5
12.5°	1896.0	1889.8	1874.3	1883.6	1883.6
15°	1863.4	1858.8	1841.8	1849.5	1849.5
17.5°	1829.4	1821.6	1804.6	1813.9	1806.1
20°	1784.4	1781.3	1761.2	1772.0	1764.3
22.5°	1739.5	1733.3	1714.7	1720.9	1716.3
25°	1691.5	1683.8	1663.6	1666.7	1662.1
27.5°	1635.7	1631.1	1611.0	1612.5	1607.9
30°	1581.5	1576.9	1553.6	1550.5	1545.9
32.5°	1522.7	1514.9	1494.8	1488.6	1479.3
35°	1460.7	1454.5	1432.8	1425.1	1412.7
37.5°	1397.2	1389.4	1369.3	1358.5	1350.7
40°	1332.1	1324.4	1302.7	1288.8	1284.1
42.5°	1262.4	1256.2	1234.5	1222.2	1214.4
45°	1195.8	1189.6	1171.0	1152.5	1147.8
47.5°	1123.0	1124.6	1101.3	1082.7	1071.9
50°	1053.3	1048.7	1030.1	1009.9	999.1
52.5°	982.1	979.0	958.8	941.8	929.4
55°	910.8	906.2	884.5	870.5	859.7
57.5°	834.9	833.4	814.8	796.2	791.5
60°	763.7	757.5	740.4	724.9	714.1
62.5°	689.3	684.7	670.7	653.7	645.9
65°	614.9	611.9	594.8	580.9	574.7
67.5°	542.1	536.0	523.6	511.2	508.1
70°	474.0	466.2	452.3	443.0	436.8
72.5°	399.6	395.0	387.2	376.4	370.2
75°	326.8	323.7	316.0	311.3	305.2
77.5°	258.7	257.1	252.5	249.4	244.7
80°	195.2	195.2	192.1	190.5	187.4
82.5°	139.4	136.3	136.3	133.2	133.2
85°	85.2	86.7	86.7	85.2	82.1
87.5°	41.8	41.8	40.3	40.3	37.2
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)