

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: P1035184

Luminaire Tested: S125DIW-B1270D470UB30-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035184
REPORT IS A COMBINATION OF REPORTS P1003284 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B1270D470UB30-4F0-XX-W2A-F1
Description: Define 5 Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

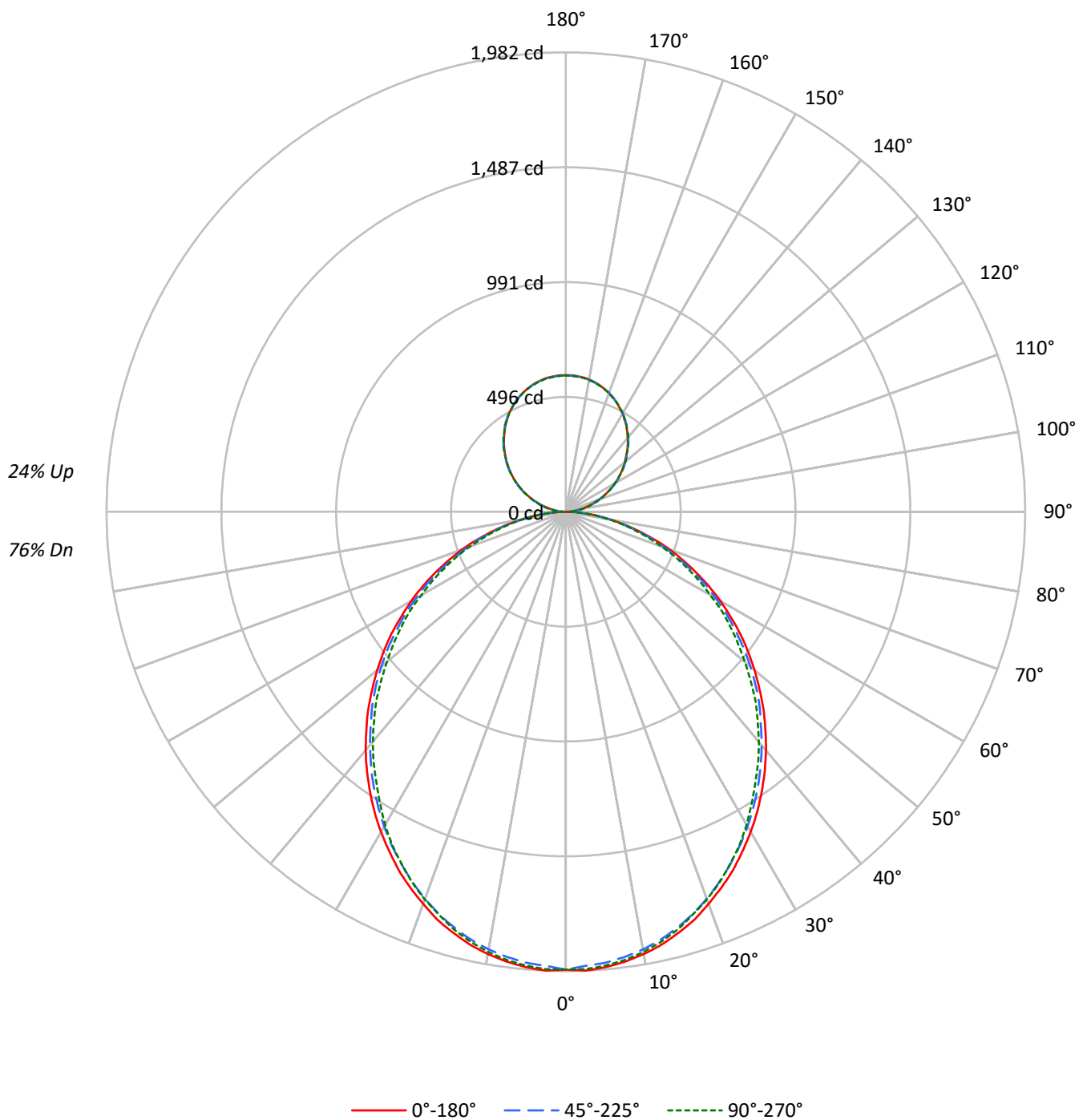
Lumens per Lamp: N/A
Luminaire Lumens: 6785.0 lumens
Efficiency: N/A
Efficacy: 91.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 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	108	108	108	108	98	98	98	88	88	88	80	80	80
1	103	99	95	91	98	94	91	87	86	83	80	78	76	74	70	69	67
2	94	86	80	74	89	82	77	72	75	70	66	68	65	61	62	59	57
3	86	76	68	62	82	73	66	60	66	61	56	60	56	52	55	51	48
4	79	67	59	53	75	64	57	51	59	53	48	54	49	45	49	45	41
5	72	60	52	45	69	58	50	44	53	46	41	48	43	39	44	40	36
6	67	54	46	40	63	52	44	38	48	41	36	44	38	34	40	36	32
7	62	49	41	35	59	47	39	34	43	37	32	40	34	30	37	32	28
8	58	45	37	31	55	43	35	30	40	33	29	37	31	27	34	29	25
9	54	41	33	28	51	39	32	27	36	30	26	34	28	24	31	26	23
10	50	38	30	25	48	36	29	25	34	28	23	31	26	22	29	24	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12655	12655	12655
5°	12656	12362	12385
10°	12551	12078	12040
15°	12387	11739	11634
20°	12164	11346	11168
25°	11924	10918	10669
30°	11636	10471	10143
35°	11328	10003	9554
40°	11009	9508	9031
45°	10665	9026	8474
50°	10285	8479	7826
55°	9911	7875	7230
60°	9462	7239	6536
65°	8927	6503	5819
70°	8382	5657	4991
75°	7465	4658	4035
80°	6363	3480	2969
85°	4911	2057	1636

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10665 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.4	2.7
10°-20°	526.5	7.8
20°-30°	777.2	11.5
30°-40°	906.8	13.4
40°-50°	910.8	13.4
50°-60°	799.5	11.8
60°-70°	595.5	8.8
70°-80°	340.1	5.0
80°-90°	99.1	1.5
90°-100°	39.1	0.6
100°-110°	116.3	1.7
110°-120°	197.2	2.9
120°-130°	259.7	3.8
130°-140°	291.0	4.3
140°-150°	285.2	4.2
150°-160°	239.6	3.5
160°-170°	159.2	2.3
170°-180°	55.7	0.8
0°-30°	1490.1	22.0
0°-40°	2396.9	35.3
0°-60°	4107.2	60.5
0°-90°	5141.9	75.8
90°-120°	352.7	5.2
90°-150°	1188.5	17.5
90°-180°	1643.0	24.2
0°-180°	6785.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1975	1975	1975	1975	1975	
5°	1972	1969	1953	1967	1966	187
15°	1880	1875	1858	1866	1866	530
25°	1706	1699	1678	1681	1677	785
35°	1474	1467	1446	1438	1425	922
45°	1206	1200	1181	1163	1158	929
55°	919	914	892	878	867	820
65°	620	617	600	586	580	615
75°	330	327	319	314	308	351
85°	86	88	88	86	83	94
90°	0	4	7	10	11	8
95°	30	31	35	38	39	31
105°	104	107	110	112	114	111
115°	198	199	200	200	199	195
125°	288	291	291	290	290	258
135°	375	378	378	378	376	289
145°	454	456	457	457	456	284
155°	520	520	520	522	520	239
165°	565	564	564	566	564	159
175°	587	586	586	588	585	56
180°	589	589	589	589	589	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1975.2	1975.2	1975.2	1975.2	1975.2
2.5°	1981.5	1976.8	1961.2	1976.8	1975.2
5°	1972.1	1969.0	1953.3	1967.4	1965.8
7.5°	1958.0	1954.9	1937.7	1951.8	1950.2
10°	1937.7	1934.6	1917.4	1929.9	1928.3
12.5°	1912.7	1906.5	1890.8	1900.2	1900.2
15°	1879.9	1875.2	1858.0	1865.8	1865.8
17.5°	1845.5	1837.7	1820.5	1829.9	1822.1
20°	1800.2	1797.1	1776.8	1787.7	1779.9
22.5°	1754.9	1748.6	1729.9	1736.1	1731.4
25°	1706.4	1698.6	1678.3	1681.4	1676.7
27.5°	1650.2	1645.5	1625.2	1626.7	1622.1
30°	1595.5	1590.8	1567.4	1564.2	1559.5
32.5°	1536.1	1528.3	1508.0	1501.7	1492.4
35°	1473.6	1467.3	1445.5	1437.7	1425.2
37.5°	1409.5	1401.7	1381.4	1370.5	1362.6
40°	1343.9	1336.1	1314.2	1300.1	1295.5
42.5°	1273.6	1267.3	1245.4	1232.9	1225.1
45°	1206.4	1200.1	1181.4	1162.6	1157.9
47.5°	1132.9	1134.5	1111.1	1092.3	1081.4
50°	1062.6	1057.9	1039.2	1018.9	1007.9
52.5°	990.7	987.6	967.3	950.1	937.6
55°	918.9	914.2	892.3	878.2	867.3
57.5°	842.3	840.7	822.0	803.2	798.5
60°	770.4	764.1	747.0	731.3	720.4
62.5°	695.4	690.7	676.6	659.4	651.6
65°	620.4	617.3	600.1	586.0	579.8
67.5°	546.9	540.7	528.2	515.7	512.6
70°	478.2	470.4	456.3	446.9	440.7
72.5°	403.2	398.5	390.7	379.7	373.5
75°	329.7	326.6	318.8	314.1	307.8
77.5°	261.0	259.4	254.7	251.6	246.9
80°	196.9	196.9	193.8	192.2	189.1
82.5°	140.6	137.5	137.5	134.4	134.4
85°	85.9	87.5	87.5	85.9	82.8
87.5°	42.2	42.2	40.6	40.6	37.5
90°	0.5	4.1	7.3	9.6	11.0
92.5°	13.7	16.0	20.2	23.4	24.3
95°	29.8	30.7	35.3	38.5	39.4
97.5°	45.8	46.3	52.7	55.4	55.9
100°	64.1	64.1	70.1	74.2	75.1
102.5°	83.8	86.1	88.4	93.0	94.4
105°	104.5	106.7	109.5	112.2	113.6
107.5°	126.9	129.2	131.5	132.9	132.9
110°	150.3	152.6	153.9	155.3	154.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	174.1	175.0	176.8	177.3	176.4
115°	197.5	199.3	200.2	199.8	199.3
117.5°	221.3	221.7	222.7	223.1	221.3
120°	243.3	245.6	246.0	246.0	244.2
122.5°	267.1	267.6	268.9	268.5	267.1
125°	288.2	290.9	291.4	290.5	290.0
127.5°	311.5	312.9	313.4	312.9	312.0
130°	332.2	334.5	335.4	334.9	334.0
132.5°	352.8	356.9	356.4	356.0	354.6
135°	374.8	377.5	378.0	378.0	376.1
137.5°	395.4	398.1	399.1	399.5	397.2
140°	415.1	417.4	418.8	419.7	417.4
142.5°	434.8	436.6	438.5	438.9	436.6
145°	454.0	455.9	457.2	457.2	455.9
147.5°	471.9	473.3	474.2	475.6	471.9
150°	489.8	489.3	491.1	491.1	490.2
152.5°	504.4	505.3	505.8	507.2	505.3
155°	519.5	519.5	520.0	521.8	519.5
157.5°	533.3	532.4	532.8	534.7	531.5
160°	545.2	543.8	544.3	546.1	543.8
162.5°	555.7	554.8	554.8	557.1	554.4
165°	564.9	564.0	564.4	566.3	563.5
167.5°	573.1	571.3	571.3	574.1	571.3
170°	579.6	577.7	577.7	580.5	577.3
172.5°	584.1	582.3	582.3	585.1	582.3
175°	587.4	585.5	585.5	588.3	585.1
177.5°	589.6	587.8	587.4	590.1	586.9
180°	588.7	588.7	588.7	588.7	588.7

(END OF REPORT)