

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: P1034778

Luminaire Tested: S125RDIW-B1270D470UB2750-4F0-XX-W2A-F_5000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034778
REPORT IS A COMBINATION OF REPORTS P1006290 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIW-B1270D470UB2750-4F0-XX-W2A-F_5000K
Description: Define 5 Regressed Direct/Indirect Wall Mount with 5000K BioUP LEDs {m-DER=1.015}
{m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

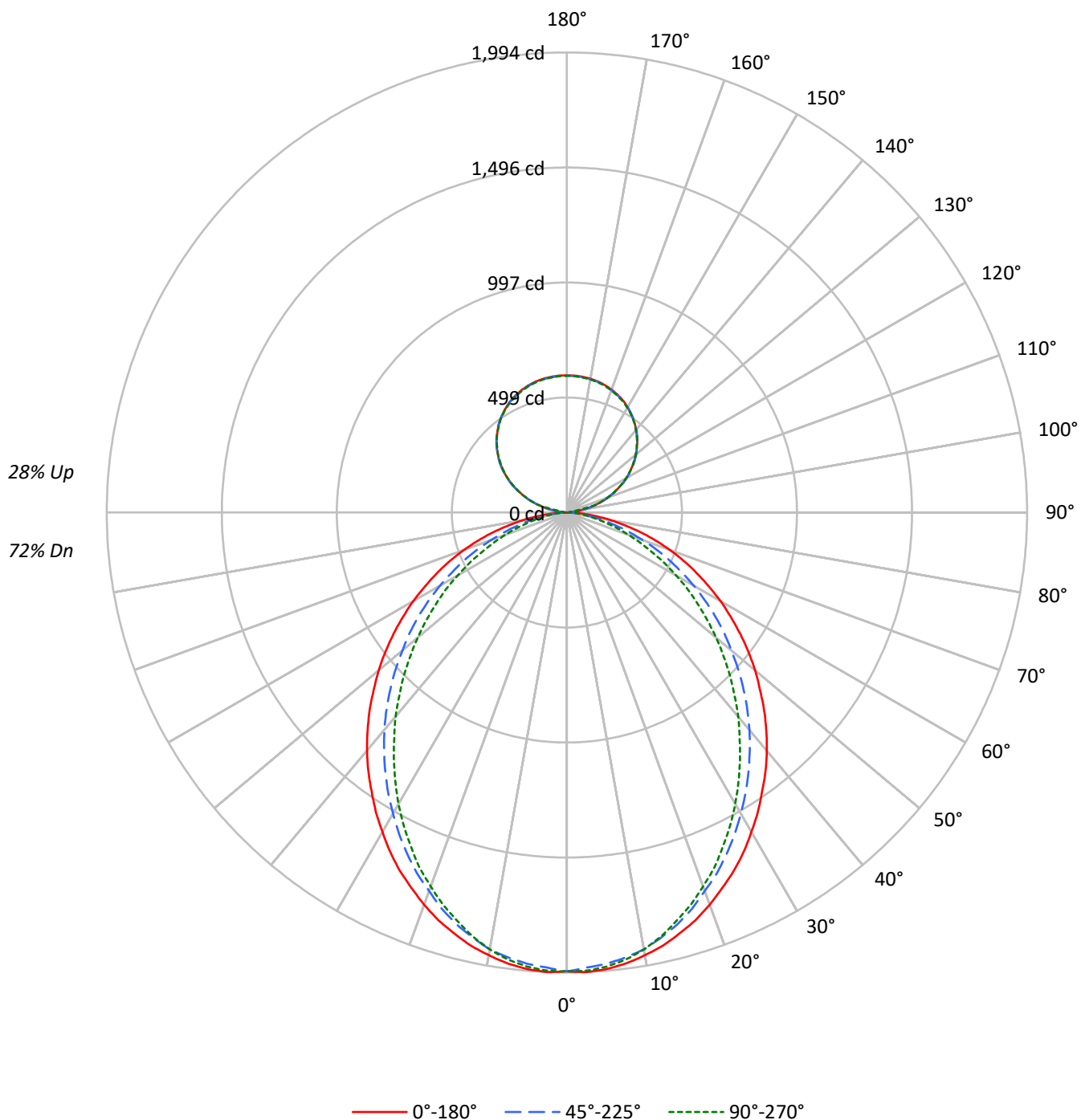
Lumens per Lamp: N/A
Luminaire Lumens: 6523.0 lumens
Efficiency: N/A
Efficacy: 87.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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	50	30	10
RCR																				
0	112	112	112	112	107	107	107	107	96	96	96	86	86	86	76	76	76	76	76	76
1	103	99	95	91	98	94	90	87	84	82	79	76	74	72	68	67	65	65	65	61
2	94	87	80	75	89	82	77	72	74	70	66	67	64	61	60	58	55	55	55	52
3	86	76	69	63	81	73	66	61	66	61	56	60	55	52	54	50	48	48	48	44
4	79	68	60	54	75	65	57	52	59	53	48	53	49	45	48	44	41	41	41	38
5	73	61	52	46	69	58	50	45	53	47	42	48	43	39	44	39	36	36	36	33
6	67	55	46	41	63	52	45	39	48	41	37	44	38	34	40	35	32	32	32	29
7	62	50	42	36	59	48	40	35	44	37	33	40	34	31	36	32	28	28	28	26
8	58	45	37	32	55	43	36	31	40	34	29	37	31	27	33	29	26	26	26	24
9	54	42	34	29	51	40	33	28	37	31	26	34	29	25	31	26	23	23	23	21
10	51	38	31	26	48	37	30	25	34	28	24	31	26	23	29	24	21	21	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12746	12746	12746
5°	12747	12428	12448
10°	12622	12115	12008
15°	12444	11677	11429
20°	12223	11149	10823
25°	11969	10634	10172
30°	11659	10068	9489
35°	11341	9493	8763
40°	11040	8902	8054
45°	10679	8265	7313
50°	10311	7588	6556
55°	9885	6922	5773
60°	9449	6160	4962
65°	8928	5308	4087
70°	8323	4322	3216
75°	7483	3249	2344
80°	6311	2104	1581
85°	4723	1131	891

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10679 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.2	2.9
10°-20°	523.2	8.0
20°-30°	758.7	11.6
30°-40°	864.3	13.3
40°-50°	842.5	12.9
50°-60°	709.0	10.9
60°-70°	496.8	7.6
70°-80°	254.7	3.9
80°-90°	64.4	1.0
90°-100°	20.1	0.3
100°-110°	133.9	2.1
110°-120°	241.1	3.7
120°-130°	309.4	4.7
130°-140°	332.8	5.1
140°-150°	312.4	4.8
150°-160°	252.7	3.9
160°-170°	163.4	2.5
170°-180°	56.4	0.9
0°-30°	1469.1	22.5
0°-40°	2333.5	35.8
0°-60°	3884.9	59.6
0°-90°	4700.9	72.1
90°-120°	395.1	6.1
90°-150°	1349.7	20.7
90°-180°	1822.0	27.9
0°-180°	6523.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1989	1989	1989	1989	1989	
5°	1986	1980	1964	1979	1976	188
15°	1889	1880	1848	1847	1833	533
25°	1713	1690	1635	1615	1599	788
35°	1475	1439	1372	1328	1307	924
45°	1208	1164	1082	1022	999	932
55°	916	868	784	717	693	820
65°	620	569	490	430	407	614
75°	330	286	222	189	179	349
85°	83	56	48	47	45	90
90°	0	4	7	9	11	6
95°	25	24	7	9	9	31
105°	129	131	131	131	131	137
115°	243	245	245	244	241	241
125°	345	348	348	346	345	308
135°	430	433	432	431	429	332
145°	499	500	500	500	498	312
155°	550	547	548	549	546	253
165°	580	577	578	580	577	164
175°	593	590	591	594	590	56
180°	593	593	593	593	593	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1989.3	1989.3	1989.3	1989.3	1989.3
2.5°	1993.8	1989.3	1974.3	1989.3	1987.8
5°	1986.3	1980.3	1963.8	1978.8	1975.8
7.5°	1971.3	1965.3	1945.7	1957.7	1954.7
10°	1948.7	1944.2	1923.2	1927.7	1923.2
12.5°	1923.2	1917.2	1887.1	1890.1	1882.6
15°	1888.6	1879.6	1848.1	1846.6	1833.0
17.5°	1852.6	1839.0	1801.5	1794.0	1783.5
20°	1809.0	1794.0	1745.9	1738.4	1724.9
22.5°	1760.9	1745.9	1694.8	1678.3	1667.8
25°	1712.8	1690.3	1634.7	1615.2	1598.6
27.5°	1658.7	1631.7	1573.1	1547.6	1531.0
30°	1598.6	1570.1	1507.0	1472.4	1458.9
32.5°	1540.1	1505.5	1440.9	1401.8	1383.8
35°	1475.4	1439.4	1371.8	1328.2	1307.2
37.5°	1413.8	1370.3	1301.2	1250.1	1229.0
40°	1347.7	1302.7	1230.5	1173.4	1155.4
42.5°	1278.6	1232.0	1156.9	1102.8	1074.3
45°	1208.0	1164.4	1081.8	1021.7	999.2
47.5°	1134.4	1089.3	1006.7	945.1	919.5
50°	1065.3	1015.7	930.0	866.9	844.4
52.5°	990.1	939.1	859.4	790.3	767.8
55°	916.5	868.4	784.3	716.7	692.6
57.5°	841.4	790.3	709.2	643.1	622.0
60°	769.3	716.7	635.6	569.4	546.9
62.5°	692.6	643.1	560.4	500.3	477.8
65°	620.5	569.4	489.8	429.7	407.2
67.5°	548.4	497.3	420.7	363.6	345.6
70°	474.8	423.7	348.6	302.0	284.0
72.5°	402.7	353.1	284.0	241.9	231.4
75°	330.5	285.5	222.4	189.3	178.8
77.5°	256.9	220.9	168.3	142.7	133.7
80°	195.3	159.3	117.2	103.7	100.7
82.5°	135.2	103.7	78.1	73.6	72.1
85°	82.6	55.6	48.1	46.6	45.1
87.5°	34.6	24.0	22.5	22.5	21.0
90°	0.4	4.0	7.0	9.2	10.6
92.5°	8.4	4.4	7.0	9.2	9.7
95°	25.1	23.7	7.0	9.2	9.2
97.5°	47.0	49.7	7.9	8.8	9.2
100°	73.4	74.8	76.5	11.0	9.2
102.5°	100.3	102.0	102.9	103.8	66.8
105°	129.3	131.0	131.0	131.0	130.6
107.5°	159.2	159.2	160.1	160.5	158.7
110°	188.2	188.2	189.1	187.8	188.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	215.5	216.8	217.2	215.5	214.6
115°	242.7	244.9	245.4	243.6	241.0
117.5°	271.3	271.3	273.1	270.4	269.5
120°	297.7	297.2	298.6	297.7	295.5
122.5°	321.0	323.2	323.6	322.8	320.1
125°	345.2	348.3	348.3	346.5	345.2
127.5°	368.5	370.7	370.2	369.4	365.8
130°	389.6	391.8	392.2	390.9	388.7
132.5°	410.7	413.3	412.0	412.0	409.8
135°	430.5	433.1	432.2	431.4	428.7
137.5°	449.0	451.6	450.7	450.7	448.5
140°	467.0	467.9	467.4	468.3	465.7
142.5°	483.2	483.7	484.6	484.6	481.9
145°	499.1	500.0	500.0	500.4	497.8
147.5°	513.2	513.2	513.6	514.0	511.0
150°	526.3	525.5	526.3	527.2	523.7
152.5°	539.1	536.9	537.8	538.7	535.6
155°	549.6	547.0	547.9	549.2	545.7
157.5°	558.0	556.7	556.7	558.0	554.5
160°	566.8	564.2	564.6	566.4	562.8
162.5°	573.8	571.2	571.6	574.3	570.3
165°	580.0	577.3	577.8	580.4	576.9
167.5°	584.8	582.2	582.6	585.7	581.7
170°	588.8	585.7	586.1	589.7	585.7
172.5°	591.4	588.3	589.2	592.3	588.3
175°	593.2	590.5	591.0	594.5	590.5
177.5°	594.5	591.9	592.3	595.4	591.9
180°	593.2	593.2	593.2	593.2	593.2

(END OF REPORT)