

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: P1034439

Luminaire Tested: S125DIW-B1270D470UB2750-4F0-XX-W2A-D1_5000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034439
REPORT IS A COMBINATION OF REPORTS P1003263 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B1270D470UB2750-4F0-XX-W2A-D1_5000K
Description: Define 5 Direct/Indirect Wall Mount with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

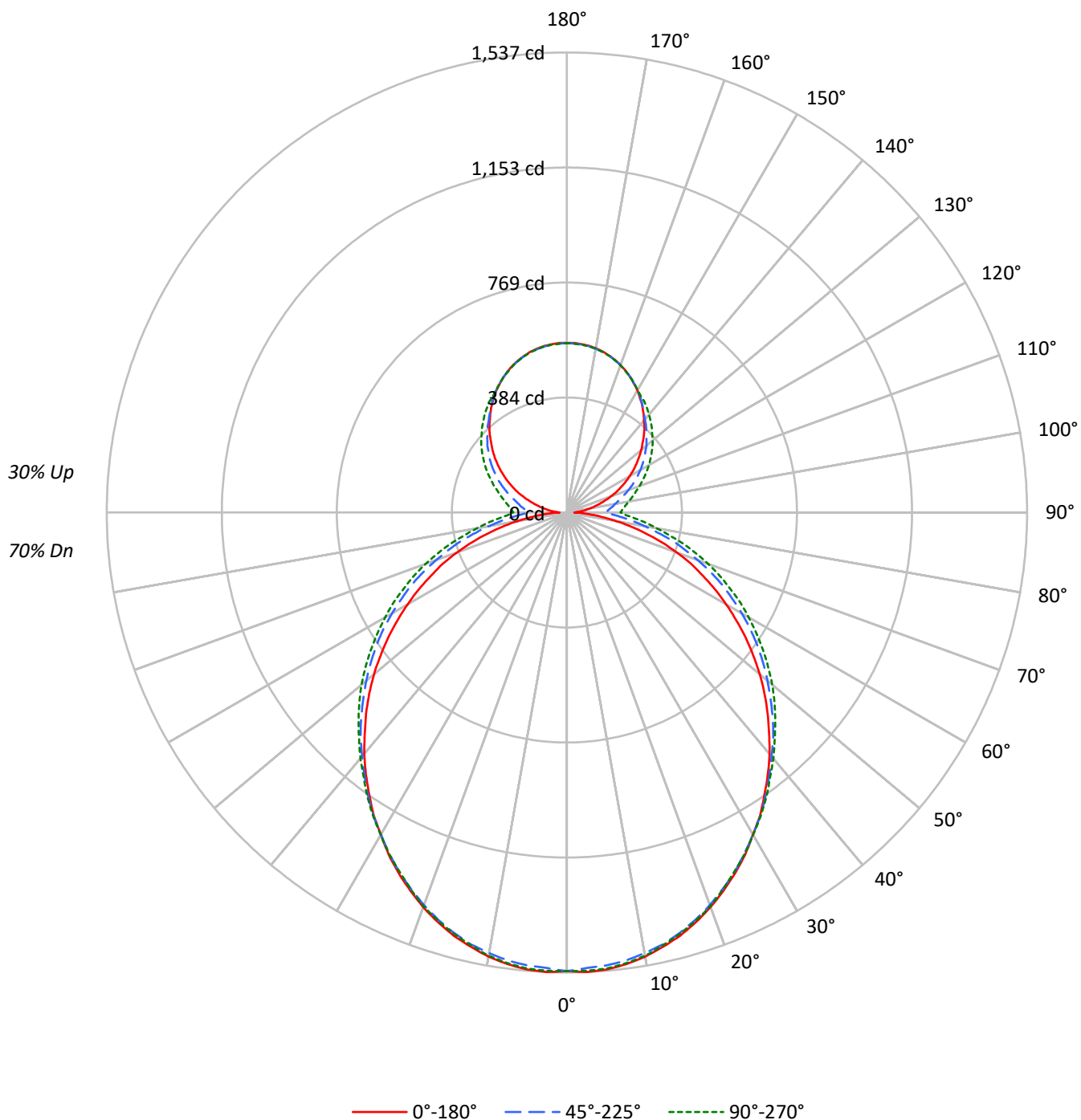
Lumens per Lamp: N/A
Luminaire Lumens: 6328.0 lumens
Efficiency: N/A
Efficacy: 84.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	112	112	112	112	106	106	106	106	95	95	95	84	84	84	75	75	75
1	101	96	92	88	96	91	87	84	82	79	76	73	70	68	65	63	61
2	92	84	77	71	87	79	73	68	71	66	62	63	60	56	56	53	51
3	84	73	65	59	79	69	62	56	62	56	52	56	51	47	50	46	43
4	76	65	56	50	72	61	54	48	55	49	44	49	44	40	44	40	37
5	70	58	49	42	66	55	47	41	49	43	38	44	39	35	40	35	32
6	65	52	43	37	61	49	41	36	44	38	33	40	35	30	36	31	28
7	60	47	38	32	56	45	37	31	40	34	29	36	31	27	33	28	25
8	56	43	34	29	52	41	33	28	37	30	26	33	28	24	30	26	22
9	52	39	31	26	49	37	30	25	34	28	23	31	25	22	28	23	20
10	48	36	28	23	46	34	27	22	31	25	21	28	23	20	26	21	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9818	9818	9818
5°	9834	9612	9636
10°	9760	9416	9389
15°	9642	9188	9086
20°	9481	8913	8786
25°	9291	8619	8421
30°	9061	8300	8091
35°	8846	8005	7785
40°	8627	7695	7478
45°	8380	7426	7201
50°	8143	7133	6952
55°	7858	6855	6662
60°	7546	6537	6365
65°	7220	6203	6031
70°	6847	5755	5683
75°	6258	5313	5258
80°	5487	4774	4788
85°	4723	4345	4541

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8380 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.0	2.3
10°-20°	411.6	6.5
20°-30°	612.1	9.7
30°-40°	724.9	11.5
40°-50°	749.5	11.8
50°-60°	690.4	10.9
60°-70°	558.1	8.8
70°-80°	373.4	5.9
80°-90°	193.9	3.1
90°-100°	146.4	2.3
100°-110°	192.0	3.0
110°-120°	243.3	3.8
120°-130°	280.1	4.4
130°-140°	293.1	4.6
140°-150°	276.9	4.4
150°-160°	230.4	3.6
160°-170°	153.1	2.4
170°-180°	53.6	0.8
0°-30°	1168.8	18.5
0°-40°	1893.7	29.9
0°-60°	3333.6	52.7
0°-90°	4459.0	70.5
90°-120°	581.7	9.2
90°-150°	1431.8	22.6
90°-180°	1869.0	29.5
0°-180°	6328.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1532	1532	1532	1532	1532	
5°	1532	1529	1519	1531	1529	145
15°	1463	1465	1454	1463	1457	412
25°	1330	1334	1325	1331	1324	612
35°	1151	1161	1157	1161	1161	720
45°	948	964	972	982	984	731
55°	729	753	777	793	799	651
65°	502	536	572	595	601	498
75°	276	316	364	394	401	293
85°	83	132	185	218	230	86
90°	24	76	130	167	179	19
95°	48	88	144	180	191	45
105°	114	140	188	221	232	121
115°	199	211	251	278	286	197
125°	283	284	315	338	345	253
135°	363	365	376	395	401	280
145°	438	438	440	447	452	274
155°	500	500	500	502	500	230
165°	543	542	543	545	542	153
175°	565	563	563	566	563	54
180°	566	566	566	566	566	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1532.4	1532.4	1532.4	1532.4	1532.4
2.5°	1536.9	1533.9	1523.4	1533.9	1532.4
5°	1532.4	1529.4	1518.8	1530.9	1529.4
7.5°	1521.8	1520.3	1509.8	1520.3	1518.8
10°	1506.8	1506.8	1494.8	1505.3	1503.8
12.5°	1485.8	1487.3	1478.3	1485.8	1481.3
15°	1463.3	1464.8	1454.2	1463.3	1457.2
17.5°	1434.7	1437.7	1427.2	1434.7	1430.2
20°	1403.2	1406.2	1395.7	1400.2	1400.2
22.5°	1367.1	1373.1	1361.1	1367.1	1362.6
25°	1329.6	1334.1	1325.0	1331.1	1323.5
27.5°	1289.0	1295.0	1284.5	1289.0	1286.0
30°	1242.4	1251.4	1242.4	1245.4	1243.9
32.5°	1200.4	1207.9	1201.9	1204.9	1203.4
35°	1150.8	1161.3	1156.8	1161.3	1161.3
37.5°	1102.7	1111.7	1110.2	1116.2	1114.7
40°	1053.1	1065.1	1063.6	1069.7	1072.7
42.5°	999.0	1015.6	1020.1	1027.6	1027.6
45°	948.0	964.5	972.0	982.5	984.0
47.5°	895.4	910.4	922.4	937.4	940.5
50°	841.3	857.8	874.3	890.9	895.4
52.5°	784.2	805.2	826.3	844.3	847.3
55°	728.6	752.7	776.7	793.2	799.2
57.5°	671.5	700.1	727.1	745.2	749.7
60°	614.4	644.5	674.5	697.1	701.6
62.5°	558.9	588.9	622.0	647.5	653.5
65°	501.8	536.3	572.4	594.9	600.9
67.5°	449.2	482.2	518.3	545.3	552.9
70°	390.6	425.2	464.2	492.8	501.8
72.5°	333.5	369.6	413.1	444.7	450.7
75°	276.4	315.5	363.6	393.6	401.1
77.5°	220.8	265.9	311.0	344.0	350.0
80°	169.8	214.8	265.9	299.0	305.0
82.5°	123.2	171.3	223.8	255.4	267.4
85°	82.6	132.2	184.8	217.8	229.9
87.5°	52.6	100.7	151.7	186.3	196.8
90°	24.4	76.1	130.2	167.0	178.9
92.5°	34.2	80.0	136.6	172.7	184.1
95°	48.1	88.1	143.6	179.7	191.1
97.5°	62.1	98.6	154.4	188.5	199.5
100°	78.2	109.8	163.5	199.1	209.0
102.5°	95.6	126.4	175.1	209.6	220.0
105°	114.0	140.3	187.9	220.6	232.5
107.5°	134.0	157.3	203.1	234.5	243.5
110°	155.0	175.2	218.6	248.6	258.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	177.9	192.3	234.7	262.1	271.8
115°	198.9	211.2	251.1	277.7	286.3
117.5°	220.3	228.2	266.7	292.7	301.4
120°	241.5	248.2	283.2	308.7	315.9
122.5°	262.9	264.8	299.2	322.8	330.5
125°	283.1	284.3	314.8	337.9	345.0
127.5°	304.1	303.9	329.9	352.0	360.1
130°	323.9	324.6	346.5	367.2	373.8
132.5°	342.3	346.2	360.8	381.4	386.1
135°	363.4	364.6	375.5	395.0	400.8
137.5°	383.2	384.4	391.3	409.7	413.5
140°	400.7	402.9	405.7	423.1	426.9
142.5°	419.6	419.9	421.6	435.6	439.4
145°	438.1	438.4	439.7	447.2	451.9
147.5°	453.8	455.1	456.0	460.3	459.8
150°	471.0	470.6	472.3	472.3	472.9
152.5°	485.1	486.0	486.4	487.7	486.0
155°	499.6	499.6	500.1	501.8	499.6
157.5°	512.9	512.0	512.4	514.2	511.1
160°	524.3	523.0	523.4	525.2	523.0
162.5°	534.4	533.6	533.6	535.8	533.1
165°	543.3	542.4	542.8	544.6	541.9
167.5°	551.2	549.4	549.4	552.1	549.4
170°	557.4	555.6	555.6	558.2	555.1
172.5°	561.8	560.0	560.0	562.6	560.0
175°	564.8	563.1	563.1	565.7	562.6
177.5°	567.0	565.3	564.8	567.5	564.4
180°	566.2	566.2	566.2	566.2	566.2

(END OF REPORT)