

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: P1035199

Luminaire Tested: S125DIW-B1270D470UB50-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035199
REPORT IS A COMBINATION OF REPORTS P1003307 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B1270D470UB50-4F0-XX-W2A-D
Description: Define 5 Direct/Indirect Wall Mount with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

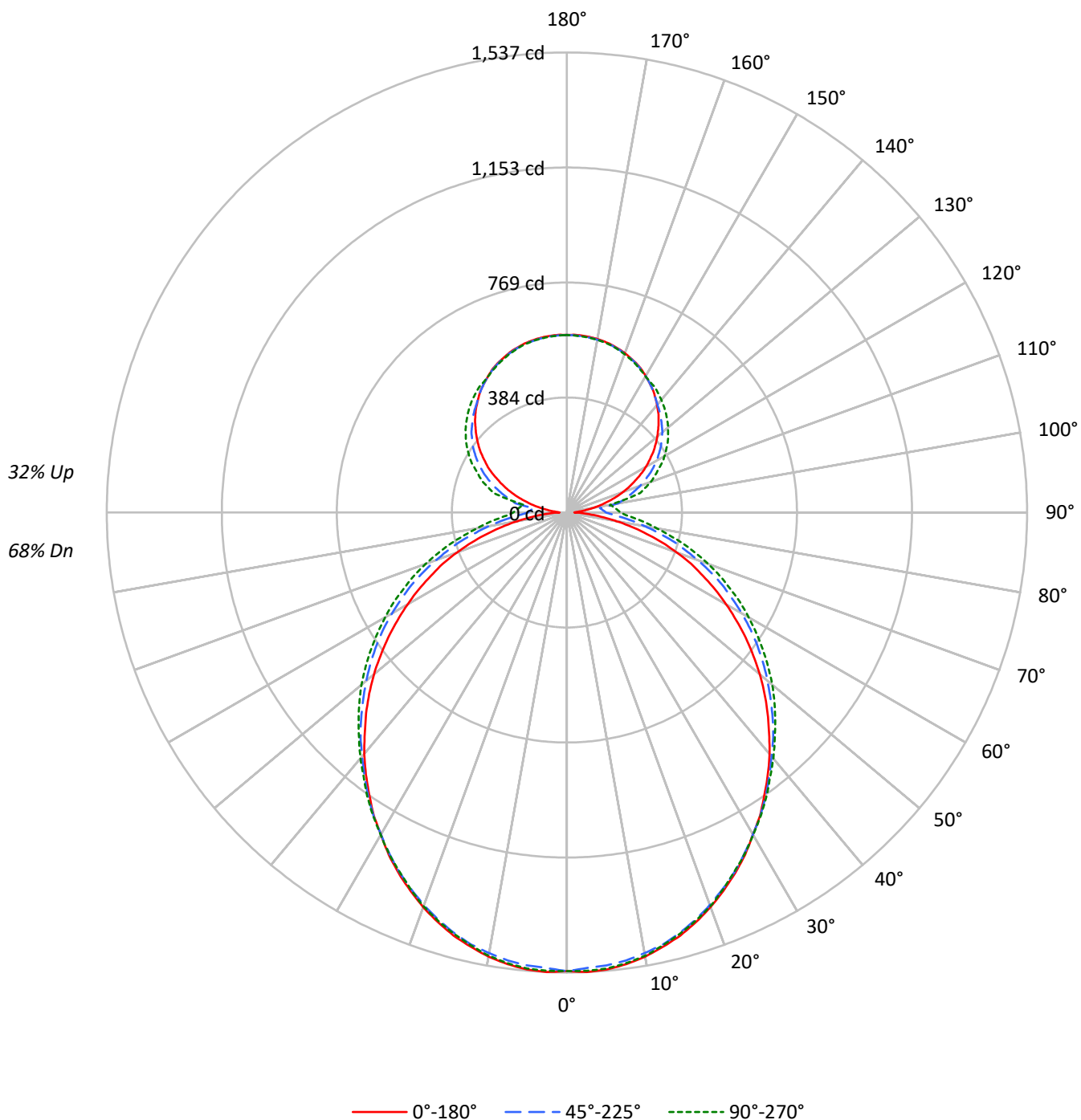
Lumens per Lamp: N/A
Luminaire Lumens: 6570.0 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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

TEST NUMBER: P1035199

CATALOG NUMBER: S125DIW-B1270D470UB50-4F0-XX-W2A-D

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	111	111	111	111	105	105	105	105	93	93	93	82	82	82	73	73	73
1	101	96	92	88	95	91	87	83	80	77	75	71	69	67	63	61	59
2	91	83	76	71	86	79	73	67	70	65	61	62	58	55	54	52	49
3	83	73	65	59	78	69	62	56	61	56	51	54	50	46	48	44	41
4	76	64	56	49	71	61	53	47	54	48	43	48	43	39	43	39	35
5	70	57	49	42	65	54	46	41	49	42	37	43	38	34	38	34	31
6	64	51	43	37	60	49	41	35	44	37	32	39	34	30	35	30	27
7	59	46	38	32	56	44	36	31	40	33	29	36	30	26	32	27	24
8	55	42	34	28	52	40	33	27	36	30	25	33	27	23	29	25	21
9	51	39	31	25	48	37	30	25	33	27	23	30	25	21	27	23	19
10	48	36	28	23	45	34	27	22	31	25	21	28	23	19	25	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

TEST NUMBER: P1035199

CATALOG NUMBER: S125DIW-B1270D470UB50-4F0-XX-W2A-D

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.0	2.2
10°-20°	411.6	6.3
20°-30°	612.1	9.3
30°-40°	724.9	11.0
40°-50°	749.5	11.4
50°-60°	690.4	10.5
60°-70°	558.1	8.5
70°-80°	373.4	5.7
80°-90°	193.9	3.0
90°-100°	128.8	2.0
100°-110°	214.0	3.3
110°-120°	294.7	4.5
120°-130°	339.8	5.2
130°-140°	346.1	5.3
140°-150°	315.0	4.8
150°-160°	252.7	3.8
160°-170°	163.4	2.5
170°-180°	56.4	0.9
0°-30°	1168.8	17.8
0°-40°	1893.7	28.8
0°-60°	3333.6	50.7
0°-90°	4459.0	67.9
90°-120°	637.6	9.7
90°-150°	1638.5	24.9
90°-180°	2111.0	32.1
0°-180°	6570.0	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	18
95°	45	82	117	152	162	46
105°	143	169	214	244	254	151
115°	252	264	304	329	336	250
125°	351	353	383	405	411	313
135°	434	435	444	463	468	334
145°	501	500	500	508	511	313
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	

TEST NUMBER: P1035199

CATALOG NUMBER: S125DIW-B1270D470UB50-4F0-XX-W2A-D

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	166.9	178.9
92.5°	29.4	69.0	124.2	159.4	170.4
95°	44.6	82.3	116.7	151.9	162.4
97.5°	65.0	103.8	111.6	144.0	154.9
100°	89.9	122.9	172.6	138.7	145.9
102.5°	115.3	145.6	193.0	224.0	196.0
105°	142.8	168.6	213.6	243.7	253.8
107.5°	171.2	192.3	236.7	267.2	274.4
110°	198.7	216.7	259.7	287.0	297.9

TEST NUMBER: P1035199

CATALOG NUMBER: S125DIW-B1270D470UB50-4F0-XX-W2A-D

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	226.0	240.8	281.8	307.1	316.8
115°	251.7	264.4	304.0	329.2	335.6
117.5°	278.8	286.3	325.7	348.5	358.1
120°	305.2	309.2	345.2	369.8	376.6
122.5°	327.0	330.7	364.2	387.4	393.7
125°	351.2	352.8	382.9	405.1	411.3
127.5°	373.0	373.7	398.7	420.5	425.9
130°	394.1	394.8	416.2	436.0	441.3
132.5°	413.7	416.3	430.0	451.1	454.9
135°	433.5	434.6	444.2	462.9	467.8
137.5°	452.0	453.1	458.2	476.2	480.0
140°	468.5	469.4	470.4	487.8	491.2
142.5°	484.7	483.7	484.6	498.1	501.4
145°	500.6	500.0	500.0	507.9	511.3
147.5°	513.2	513.2	513.6	517.0	517.0
150°	526.3	525.5	526.3	527.2	525.2
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)