

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: P1035193

Luminaire Tested: S125DIW-B1270D470UB40-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035193
REPORT IS A COMBINATION OF REPORTS P1003298 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B1270D470UB40-4F0-XX-W2A-D
Description: Define 5 Direct/Indirect Wall Mount with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

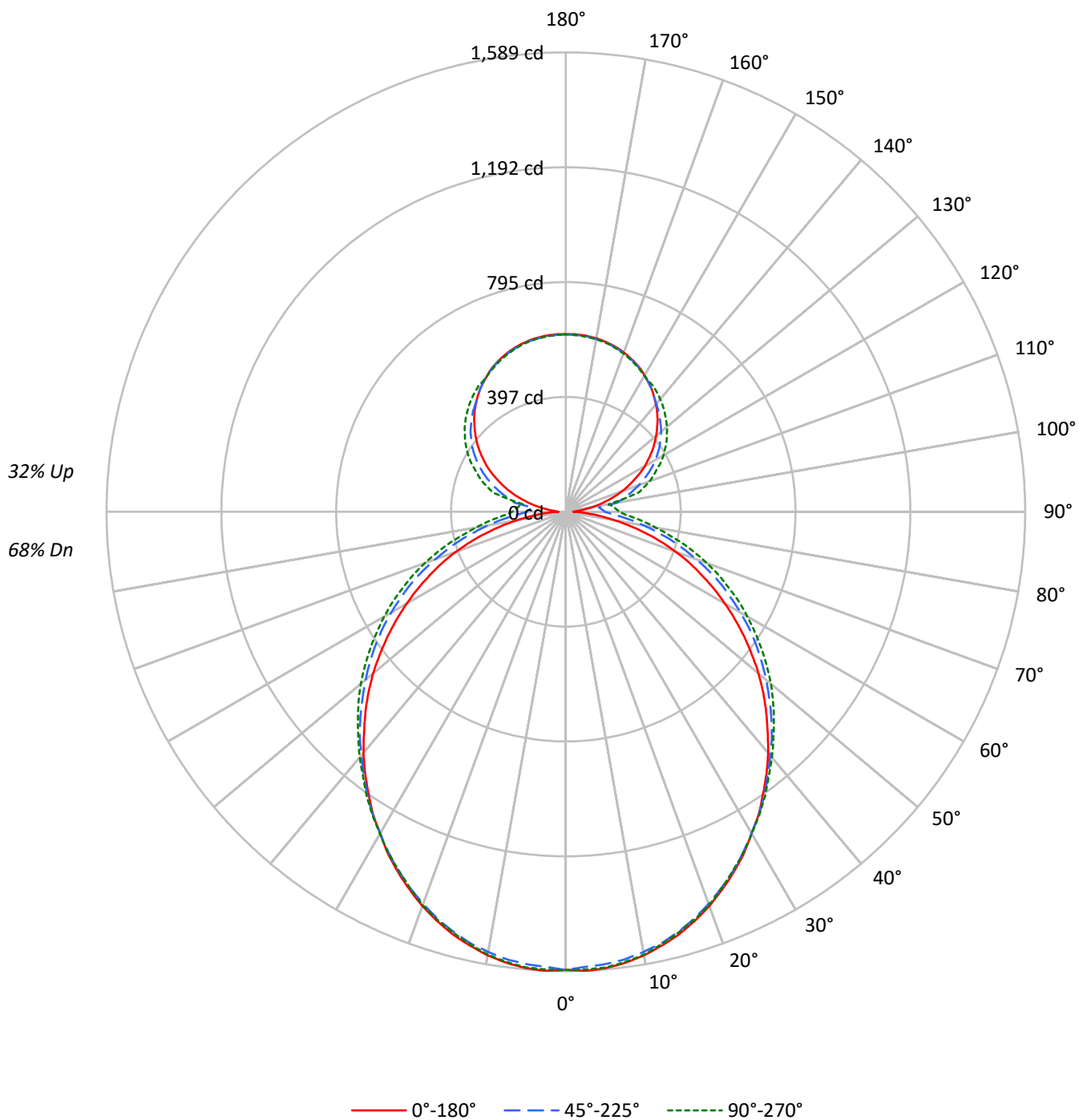
Lumens per Lamp: N/A
Luminaire Lumens: 6795.0 lumens
Efficiency: N/A
Efficacy: 91.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 74.5
Input Voltage (V):
Input Current (A_{in}): 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	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°	10153	10153	10153
5°	10170	9940	9965
10°	10093	9737	9710
15°	9970	9502	9397
20°	9805	9217	9085
25°	9608	8914	8709
30°	9370	8583	8367
35°	9148	8279	8051
40°	8922	7957	7733
45°	8666	7679	7447
50°	8421	7377	7189
55°	8127	7089	6890
60°	7804	6761	6582
65°	7466	6414	6236
70°	7080	5952	5876
75°	6473	5494	5437
80°	5675	4937	4951
85°	4883	4493	4696

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8666 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.0	2.2
10°-20°	425.7	6.3
20°-30°	633.0	9.3
30°-40°	749.7	11.0
40°-50°	775.0	11.4
50°-60°	714.0	10.5
60°-70°	577.2	8.5
70°-80°	386.2	5.7
80°-90°	200.5	3.0
90°-100°	133.3	2.0
100°-110°	221.4	3.3
110°-120°	304.9	4.5
120°-130°	351.6	5.2
130°-140°	358.1	5.3
140°-150°	325.9	4.8
150°-160°	261.4	3.8
160°-170°	169.1	2.5
170°-180°	58.3	0.9
0°-30°	1208.7	17.8
0°-40°	1958.3	28.8
0°-60°	3447.3	50.7
0°-90°	4611.2	67.9
90°-120°	659.6	9.7
90°-150°	1695.1	24.9
90°-180°	2184.0	32.1
0°-180°	6795.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1585	1585	1585	1585	1585	
5°	1585	1582	1571	1583	1582	150
15°	1513	1515	1504	1513	1507	426
25°	1375	1380	1370	1376	1369	633
35°	1190	1201	1196	1201	1201	745
45°	980	997	1005	1016	1018	756
55°	754	778	803	820	826	673
65°	519	555	592	615	621	515
75°	286	326	376	407	415	303
85°	85	137	191	225	238	89
90°	25	79	135	173	185	19
95°	46	85	121	157	168	48
105°	148	174	221	252	262	156
115°	260	274	314	341	347	258
125°	363	365	396	419	426	324
135°	448	450	460	479	484	346
145°	518	517	517	526	529	324
155°	569	566	567	568	564	262
165°	600	597	598	600	597	170
175°	614	611	611	615	611	58
180°	614	614	614	614	614	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1584.7	1584.7	1584.7	1584.7	1584.7
2.5°	1589.3	1586.2	1575.3	1586.2	1584.7
5°	1584.7	1581.6	1570.7	1583.1	1581.6
7.5°	1573.8	1572.2	1561.4	1572.2	1570.7
10°	1558.2	1558.2	1545.8	1556.7	1555.1
12.5°	1536.5	1538.1	1528.7	1536.5	1531.8
15°	1513.2	1514.7	1503.9	1513.2	1507.0
17.5°	1483.7	1486.8	1475.9	1483.7	1479.0
20°	1451.1	1454.2	1443.3	1447.9	1447.9
22.5°	1413.8	1420.0	1407.6	1413.8	1409.1
25°	1374.9	1379.6	1370.3	1376.5	1368.7
27.5°	1333.0	1339.2	1328.3	1333.0	1329.9
30°	1284.8	1294.1	1284.8	1287.9	1286.4
32.5°	1241.3	1249.1	1242.9	1246.0	1244.4
35°	1190.0	1200.9	1196.3	1200.9	1200.9
37.5°	1140.3	1149.7	1148.1	1154.3	1152.8
40°	1089.1	1101.5	1099.9	1106.2	1109.3
42.5°	1033.1	1050.2	1054.9	1062.7	1062.7
45°	980.3	997.4	1005.2	1016.0	1017.6
47.5°	925.9	941.5	953.9	969.4	972.5
50°	870.0	887.1	904.2	921.3	925.9
52.5°	811.0	832.7	854.5	873.1	876.2
55°	753.5	778.3	803.2	820.3	826.5
57.5°	694.5	724.0	751.9	770.6	775.2
60°	635.4	666.5	697.6	720.9	725.5
62.5°	577.9	609.0	643.2	669.6	675.8
65°	518.9	554.6	591.9	615.2	621.4
67.5°	464.5	498.7	536.0	564.0	571.7
70°	403.9	439.7	480.1	509.6	518.9
72.5°	344.9	382.2	427.2	459.9	466.1
75°	285.9	326.3	376.0	407.0	414.8
77.5°	228.4	275.0	321.6	355.8	362.0
80°	175.6	222.2	275.0	309.2	315.4
82.5°	127.4	177.1	231.5	264.1	276.5
85°	85.4	136.7	191.1	225.3	237.7
87.5°	54.4	104.1	156.9	192.6	203.5
90°	25.4	78.7	134.7	172.7	184.9
92.5°	30.4	71.3	128.5	165.0	176.2
95°	46.1	85.2	120.7	157.2	168.1
97.5°	67.3	107.3	115.4	148.9	160.3
100°	93.1	127.0	178.6	143.5	151.0
102.5°	119.2	150.6	199.6	231.7	202.7
105°	147.7	174.4	221.0	252.1	262.5
107.5°	177.1	198.9	244.8	276.3	283.8
110°	205.6	224.2	268.6	296.7	308.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	233.8	249.2	291.5	317.7	327.6
115°	260.4	273.6	314.4	340.6	347.2
117.5°	288.5	296.2	336.9	360.6	370.6
120°	315.8	319.9	357.1	382.6	389.6
122.5°	338.3	342.2	376.7	400.7	407.3
125°	363.3	365.0	396.0	419.1	425.5
127.5°	385.9	386.6	412.5	434.9	440.6
130°	407.8	408.4	430.7	451.0	456.5
132.5°	428.0	430.7	444.9	466.7	470.6
135°	448.5	449.7	459.6	478.9	483.9
137.5°	467.6	468.8	474.1	492.7	496.6
140°	484.7	485.6	486.7	504.7	508.2
142.5°	501.5	500.4	501.3	515.3	518.8
145°	517.9	517.2	517.2	525.5	529.0
147.5°	530.9	530.9	531.3	534.9	534.8
150°	544.5	543.6	544.5	545.4	543.4
152.5°	557.7	555.4	556.4	557.3	554.1
155°	568.6	565.9	566.8	568.2	564.5
157.5°	577.3	575.9	575.9	577.3	573.6
160°	586.4	583.7	584.1	585.9	582.3
162.5°	593.7	590.9	591.4	594.1	590.0
165°	600.0	597.3	597.8	600.5	596.8
167.5°	605.0	602.3	602.8	605.9	601.9
170°	609.1	605.9	606.4	610.0	605.9
172.5°	611.9	608.7	609.6	612.8	608.7
175°	613.7	610.9	611.4	615.0	610.9
177.5°	615.0	612.3	612.8	616.0	612.3
180°	613.7	613.7	613.7	613.7	613.7

(END OF REPORT)