

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: P1035046

Luminaire Tested: S125DIW-B1090D470UB40-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035046
REPORT IS A COMBINATION OF REPORTS P1002968 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B1090D470UB40-4F0-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

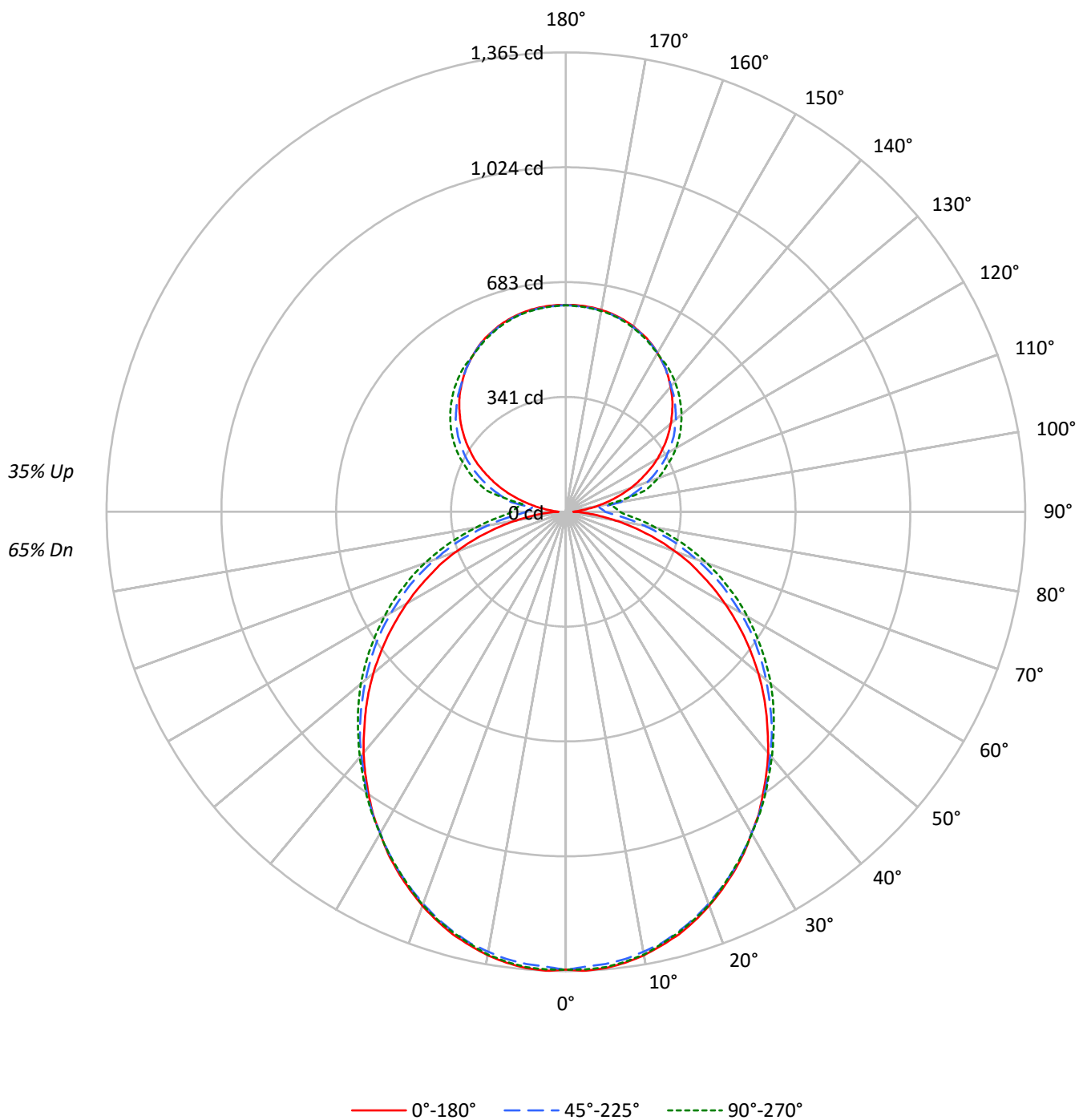
Lumens per Lamp: N/A
Luminaire Lumens: 6102.0 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 60
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	111	111	111	111	104	104	104	104	92	92	92	80	80	80	70	70	70
1	100	95	91	87	94	90	86	82	79	76	73	69	67	65	60	59	57
2	91	83	76	70	85	78	72	67	69	64	60	60	57	54	52	50	47
3	83	72	65	58	77	68	61	55	60	55	50	53	49	45	46	43	40
4	76	64	56	49	71	60	53	47	53	47	42	47	42	38	41	37	34
5	69	57	48	42	65	54	46	40	48	41	37	42	37	33	37	33	30
6	64	51	43	36	60	48	41	35	43	37	32	38	33	29	33	29	26
7	59	46	38	32	55	44	36	31	39	33	28	35	29	26	31	26	23
8	55	42	34	28	51	40	32	27	36	29	25	32	27	23	28	24	21
9	51	38	31	25	48	36	29	24	33	27	22	29	24	20	26	22	19
10	48	35	28	23	45	33	27	22	30	24	20	27	22	19	24	20	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8720	8720	8720
5°	8734	8537	8558
10°	8669	8363	8339
15°	8563	8161	8070
20°	8420	7915	7802
25°	8251	7655	7480
30°	8047	7371	7186
35°	7857	7110	6914
40°	7662	6834	6641
45°	7442	6595	6396
50°	7232	6335	6174
55°	6979	6088	5917
60°	6702	5806	5653
65°	6412	5510	5356
70°	6081	5111	5046
75°	5559	4718	4669
80°	4873	4241	4253
85°	4197	3859	4032

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7442 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.8	2.1
10°-20°	365.6	6.0
20°-30°	543.6	8.9
30°-40°	643.8	10.6
40°-50°	665.6	10.9
50°-60°	613.2	10.0
60°-70°	495.7	8.1
70°-80°	331.7	5.4
80°-90°	172.3	2.8
90°-100°	117.4	1.9
100°-110°	209.7	3.4
110°-120°	297.1	4.9
120°-130°	347.1	5.7
130°-140°	356.1	5.8
140°-150°	325.5	5.3
150°-160°	261.4	4.3
160°-170°	169.1	2.8
170°-180°	58.3	1.0
0°-30°	1038.0	17.0
0°-40°	1681.9	27.6
0°-60°	2960.7	48.5
0°-90°	3960.4	64.9
90°-120°	624.2	10.2
90°-150°	1652.9	27.1
90°-180°	2142.0	35.1
0°-180°	6102.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1361	1361	1361	1361	1361	
5°	1361	1358	1349	1360	1358	129
15°	1300	1301	1292	1300	1294	366
25°	1181	1185	1177	1182	1176	544
35°	1022	1031	1027	1031	1031	640
45°	842	857	863	873	874	650
55°	647	668	690	704	710	578
65°	446	476	508	528	534	442
75°	246	280	323	350	356	260
85°	73	117	164	194	204	77
90°	22	68	117	150	160	16
95°	43	77	105	136	146	45
105°	146	169	209	236	244	154
115°	259	271	306	328	333	257
125°	362	364	391	410	416	323
135°	448	449	458	474	478	345
145°	518	517	517	524	527	323
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°	1361.0	1361.0	1361.0	1361.0	1361.0
2.5°	1365.0	1362.3	1352.9	1362.3	1361.0
5°	1361.0	1358.3	1348.9	1359.6	1358.3
7.5°	1351.6	1350.3	1340.9	1350.3	1348.9
10°	1338.3	1338.3	1327.6	1336.9	1335.6
12.5°	1319.6	1320.9	1312.9	1319.6	1315.6
15°	1299.6	1300.9	1291.6	1299.6	1294.2
17.5°	1274.2	1276.9	1267.6	1274.2	1270.2
20°	1246.2	1248.9	1239.5	1243.5	1243.5
22.5°	1214.2	1219.5	1208.8	1214.2	1210.2
25°	1180.8	1184.8	1176.8	1182.2	1175.5
27.5°	1144.8	1150.1	1140.8	1144.8	1142.1
30°	1103.4	1111.4	1103.4	1106.1	1104.8
32.5°	1066.1	1072.8	1067.4	1070.1	1068.7
35°	1022.1	1031.4	1027.4	1031.4	1031.4
37.5°	979.4	987.4	986.0	991.4	990.0
40°	935.3	946.0	944.7	950.0	952.7
42.5°	887.3	902.0	906.0	912.6	912.6
45°	841.9	856.6	863.3	872.6	873.9
47.5°	795.2	808.6	819.2	832.6	835.3
50°	747.2	761.9	776.5	791.2	795.2
52.5°	696.5	715.2	733.8	749.9	752.5
55°	647.1	668.5	689.8	704.5	709.8
57.5°	596.4	621.8	645.8	661.8	665.8
60°	545.7	572.4	599.1	619.1	623.1
62.5°	496.3	523.0	552.4	575.1	580.4
65°	445.6	476.3	508.4	528.4	533.7
67.5°	398.9	428.3	460.3	484.3	491.0
70°	346.9	377.6	412.3	437.6	445.6
72.5°	296.2	328.2	366.9	394.9	400.3
75°	245.5	280.2	322.9	349.6	356.2
77.5°	196.1	236.2	276.2	305.5	310.9
80°	150.8	190.8	236.2	265.5	270.9
82.5°	109.4	152.1	198.8	226.8	237.5
85°	73.4	117.4	164.1	193.5	204.1
87.5°	46.7	89.4	134.8	165.4	174.8
90°	21.8	68.1	116.7	149.7	160.3
92.5°	27.3	61.9	111.4	143.0	152.8
95°	43.2	76.6	104.7	136.4	145.7
97.5°	64.7	99.4	100.3	129.2	139.0
100°	90.7	120.0	164.6	124.8	131.0
102.5°	117.0	144.2	186.5	214.1	183.8
105°	145.7	169.0	209.0	235.7	244.5
107.5°	175.4	194.1	233.6	260.7	266.9
110°	204.0	220.1	258.3	282.3	292.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	232.2	245.6	282.1	304.3	312.7
115°	259.1	270.7	305.8	328.1	333.4
117.5°	287.4	294.0	329.2	349.2	357.6
120°	314.7	318.2	350.3	372.0	377.8
122.5°	337.4	341.1	370.8	391.3	396.6
125°	362.4	364.3	391.0	410.5	415.8
127.5°	385.2	386.2	408.4	427.5	431.9
130°	407.1	408.0	427.1	444.4	448.8
132.5°	427.6	430.3	442.3	461.0	464.0
135°	448.1	449.4	457.9	474.3	478.2
137.5°	467.2	468.5	473.0	489.0	492.0
140°	484.4	485.3	486.3	501.8	504.5
142.5°	501.2	500.4	501.3	513.3	515.9
145°	517.6	517.2	517.2	524.4	527.0
147.5°	530.9	530.9	531.3	534.5	533.9
150°	544.5	543.6	544.5	545.4	543.1
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)