

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: P1034874

Luminaire Tested: S125RDIW-B610D470UB2750-4F0-XX-W2A-F1_5000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034874
REPORT IS A COMBINATION OF REPORTS P1006724 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIW-B610D470UB2750-4F0-XX-W2A-F1_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

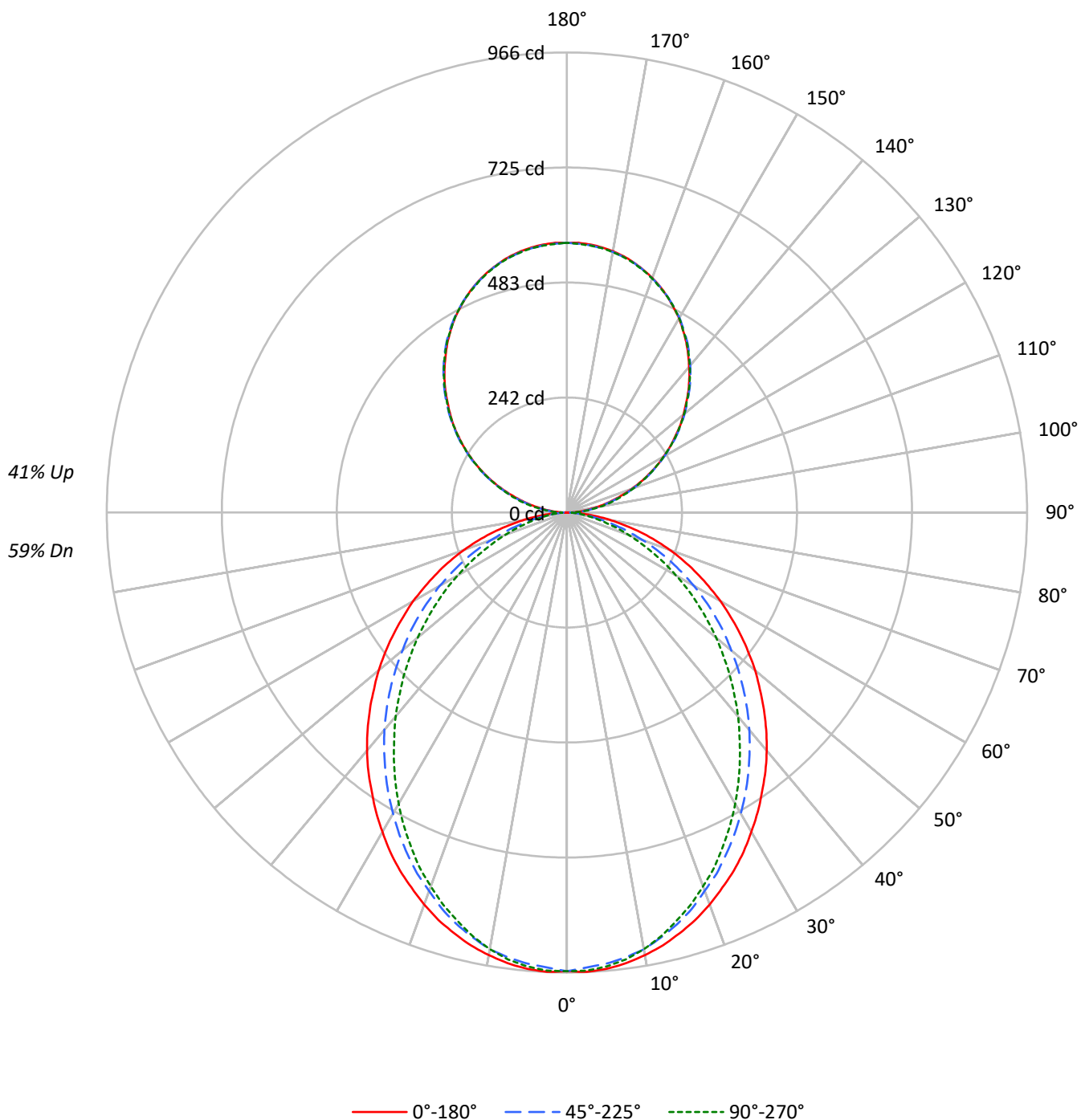
Lumens per Lamp: N/A
Luminaire Lumens: 3857.0 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 37.2
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	109	109	109	109	102	102	102	102	88	88	88	76	76	76	64	64	64	59		
1	100	96	92	89	93	90	86	83	78	75	73	67	65	64	57	56	55	50		
2	91	84	78	73	85	79	73	69	69	65	61	59	56	54	51	49	47	43		
3	83	74	67	61	78	69	63	58	61	56	52	53	49	46	45	42	40	36		
4	77	66	58	52	71	62	55	49	54	49	44	47	43	39	41	37	35	31		
5	70	59	51	45	65	55	48	42	49	43	38	42	38	34	37	33	30	27		
6	65	53	45	39	60	50	42	37	44	38	34	38	34	30	33	30	27	24		
7	60	48	40	34	56	45	38	33	40	34	30	35	30	27	30	27	24	21		
8	56	43	36	30	52	41	34	29	36	31	27	32	27	24	28	24	22	19		
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	26	22	19	17		
10	49	37	29	24	46	35	28	23	31	25	22	27	23	20	24	20	18	16		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6172	6172	6172
5°	6173	6018	6028
10°	6113	5867	5815
15°	6026	5654	5535
20°	5919	5399	5241
25°	5797	5149	4926
30°	5646	4876	4595
35°	5492	4597	4244
40°	5346	4311	3900
45°	5171	4002	3541
50°	4994	3675	3175
55°	4787	3352	2796
60°	4575	2983	2402
65°	4324	2571	1979
70°	4030	2093	1557
75°	3625	1574	1135
80°	3057	1020	765
85°	2287	548	431

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5171 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.7	2.4
10°-20°	253.4	6.6
20°-30°	367.4	9.5
30°-40°	418.6	10.9
40°-50°	408.0	10.6
50°-60°	343.3	8.9
60°-70°	240.6	6.2
70°-80°	123.3	3.2
80°-90°	31.6	0.8
90°-100°	37.7	1.0
100°-110°	111.8	2.9
110°-120°	189.7	4.9
120°-130°	249.7	6.5
130°-140°	279.8	7.3
140°-150°	274.3	7.1
150°-160°	230.4	6.0
160°-170°	153.1	4.0
170°-180°	53.6	1.4
0°-30°	711.4	18.4
0°-40°	1130.0	29.3
0°-60°	1881.3	48.8
0°-90°	2276.9	59.0
90°-120°	339.2	8.8
90°-150°	1143.0	29.6
90°-180°	1580.0	41.0
0°-180°	3857.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	963	963	963	963	963	
5°	962	959	951	958	957	91
15°	915	910	895	894	888	258
25°	830	818	792	782	774	382
35°	714	697	664	643	633	447
45°	585	564	524	495	484	451
55°	444	420	380	347	335	397
65°	300	276	237	208	197	298
75°	160	138	108	92	87	169
85°	40	27	23	23	22	44
90°	0	4	7	9	11	4
95°	29	30	34	37	38	30
105°	100	103	105	108	109	107
115°	190	192	192	192	192	188
125°	277	280	280	279	279	248
135°	360	363	364	364	362	278
145°	437	438	440	440	438	273
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°	963.3	963.3	963.3	963.3	963.3
2.5°	965.5	963.3	956.1	963.3	962.6
5°	961.9	959.0	951.0	958.2	956.8
7.5°	954.6	951.7	942.2	948.0	946.6
10°	943.7	941.5	931.3	933.5	931.3
12.5°	931.3	928.4	913.9	915.3	911.7
15°	914.6	910.2	894.9	894.2	887.7
17.5°	897.1	890.6	872.4	868.7	863.6
20°	876.0	868.7	845.5	841.8	835.3
22.5°	852.7	845.5	820.7	812.7	807.6
25°	829.5	818.5	791.6	782.2	774.2
27.5°	803.3	790.2	761.8	749.4	741.4
30°	774.2	760.3	729.8	713.0	706.5
32.5°	745.8	729.0	697.8	678.8	670.1
35°	714.5	697.0	664.3	643.2	633.0
37.5°	684.7	663.6	630.1	605.4	595.2
40°	652.6	630.8	595.9	568.2	559.5
42.5°	619.2	596.6	560.2	534.1	520.2
45°	585.0	563.9	523.9	494.8	483.8
47.5°	549.3	527.5	487.5	457.7	445.3
50°	515.9	491.8	450.4	419.8	408.9
52.5°	479.5	454.7	416.2	382.7	371.8
55°	443.8	420.5	379.8	347.1	335.4
57.5°	407.4	382.7	343.4	311.4	301.2
60°	372.5	347.1	307.8	275.8	264.8
62.5°	335.4	311.4	271.4	242.3	231.4
65°	300.5	275.8	237.2	208.1	197.2
67.5°	265.6	240.8	203.7	176.1	167.3
70°	229.9	205.2	168.8	146.2	137.5
72.5°	195.0	171.0	137.5	117.1	112.0
75°	160.1	138.2	107.7	91.7	86.6
77.5°	124.4	107.0	81.5	69.1	64.8
80°	94.6	77.1	56.8	50.2	48.7
82.5°	65.5	50.2	37.8	35.7	34.9
85°	40.0	26.9	23.3	22.6	21.8
87.5°	16.7	11.6	10.9	10.9	10.2
90°	0.4	4.0	7.0	9.3	10.6
92.5°	13.2	15.4	19.4	22.5	23.4
95°	28.6	29.5	33.9	37.0	37.9
97.5°	44.1	44.5	50.7	53.3	53.8
100°	61.7	61.7	67.4	71.4	72.3
102.5°	80.6	82.8	85.0	89.4	90.8
105°	100.5	102.7	105.3	107.9	109.3
107.5°	122.0	124.2	126.5	127.8	127.8
110°	144.5	146.7	148.0	149.4	148.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	167.4	168.3	170.1	170.5	169.6
115°	189.9	191.7	192.5	192.1	191.7
117.5°	212.8	213.2	214.1	214.6	212.8
120°	234.0	236.2	236.6	236.6	234.8
122.5°	256.9	257.3	258.6	258.2	256.9
125°	277.1	279.8	280.2	279.3	278.9
127.5°	299.6	300.9	301.4	300.9	300.0
130°	319.4	321.6	322.5	322.1	321.2
132.5°	339.3	343.2	342.8	342.3	341.0
135°	360.4	363.1	363.5	363.5	361.7
137.5°	380.2	382.9	383.8	384.2	382.0
140°	399.2	401.4	402.7	403.6	401.4
142.5°	418.1	419.9	421.6	422.1	419.9
145°	436.6	438.4	439.7	439.7	438.4
147.5°	453.8	455.1	456.0	457.3	453.8
150°	471.0	470.6	472.3	472.3	471.4
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)