

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: P1036029

Luminaire Tested: S125RDIW-B610D470UB27-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1036029
REPORT IS A COMBINATION OF REPORTS P1006715 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIW-B610D470UB27-4F0-XX-W2A-F1
Description: Define 5 Regressed Direct/Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473}
{m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

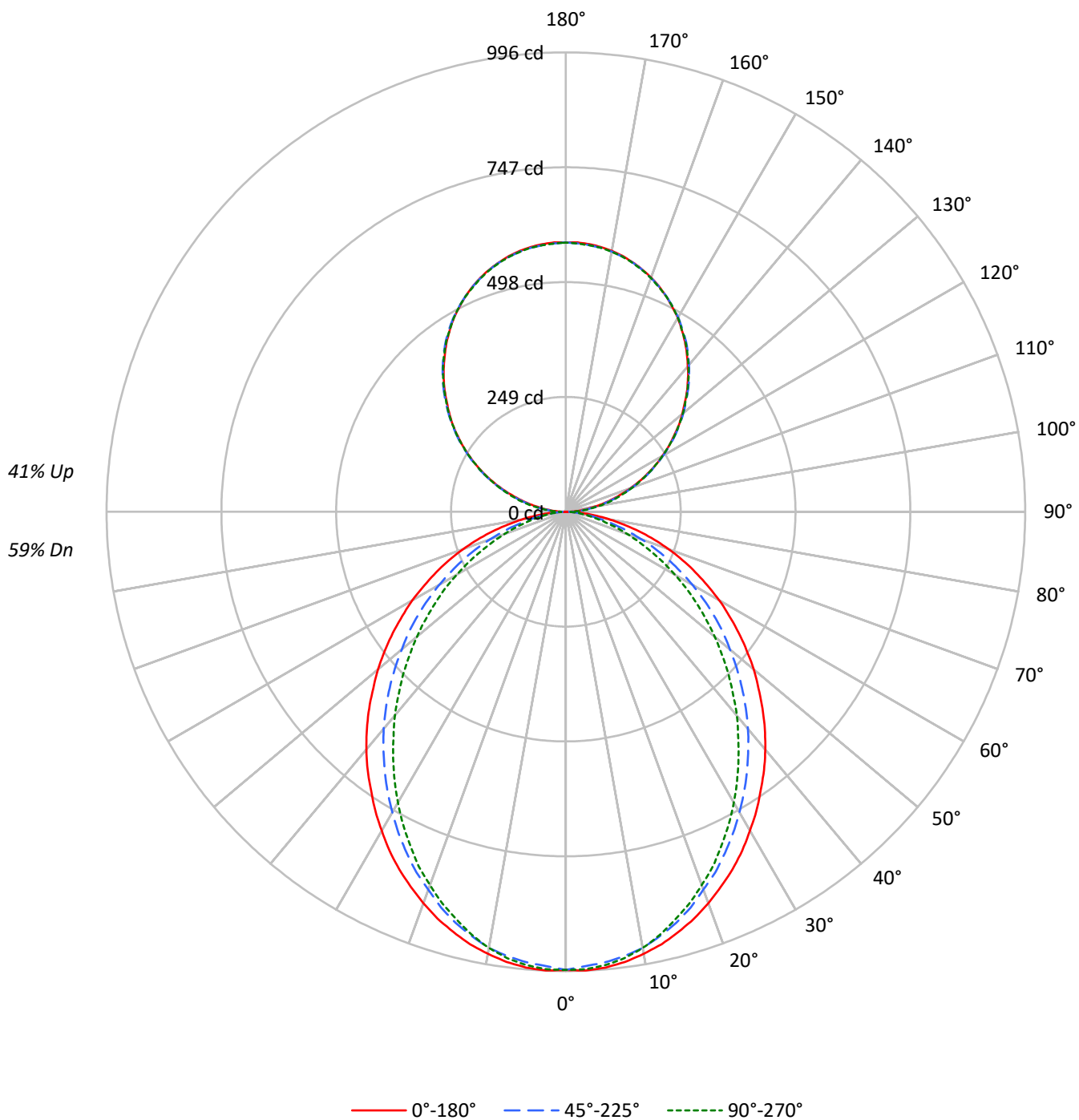
Lumens per Lamp: N/A
Luminaire Lumens: 3977.0 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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
RCR																					
0	109	109	109	109		102	102	102	102		88	88	88		76	76	76		64	64	64
1	100	96	92	89		93	90	86	83		78	75	73		67	65	64		57	56	55
2	91	84	78	73		85	79	73	69		69	65	61		59	56	54		51	49	47
3	83	74	67	61		78	69	63	58		61	56	52		53	49	46		45	42	40
4	77	66	58	52		71	62	55	49		54	49	44		47	43	39		41	37	35
5	70	59	51	45		65	55	48	42		49	43	38		42	38	34		37	33	30
6	65	53	45	39		60	50	42	37		44	38	34		38	34	30		33	30	27
7	60	48	40	34		56	45	38	33		40	34	30		35	30	27		31	27	24
8	56	43	36	30		52	41	34	29		36	31	27		32	27	24		28	24	22
9	52	40	32	27		49	38	31	26		34	28	24		30	25	22		26	22	19
10	49	37	29	24		46	35	28	23		31	25	22		27	23	20		24	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6365	6365	6365
5°	6366	6206	6216
10°	6303	6050	5997
15°	6214	5831	5707
20°	6103	5567	5404
25°	5977	5310	5080
30°	5822	5027	4738
35°	5664	4740	4376
40°	5513	4446	4022
45°	5332	4127	3651
50°	5149	3789	3274
55°	4936	3456	2883
60°	4718	3076	2478
65°	4459	2651	2040
70°	4156	2158	1606
75°	3738	1622	1171
80°	3151	1050	790
85°	2361	564	444

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5332 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.5	2.4
10°-20°	261.3	6.6
20°-30°	378.8	9.5
30°-40°	431.6	10.9
40°-50°	420.7	10.6
50°-60°	354.1	8.9
60°-70°	248.1	6.2
70°-80°	127.2	3.2
80°-90°	32.6	0.8
90°-100°	38.8	1.0
100°-110°	115.3	2.9
110°-120°	195.6	4.9
120°-130°	257.4	6.5
130°-140°	288.5	7.3
140°-150°	282.8	7.1
150°-160°	237.5	6.0
160°-170°	157.9	4.0
170°-180°	55.3	1.4
0°-30°	733.6	18.4
0°-40°	1165.2	29.3
0°-60°	1940.0	48.8
0°-90°	2347.9	59.0
90°-120°	349.7	8.8
90°-150°	1178.4	29.6
90°-180°	1629.0	41.0
0°-180°	3977.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	993	993	993	993	993	
5°	992	989	981	988	987	94
15°	943	939	923	922	915	266
25°	855	844	816	807	798	394
35°	737	719	685	663	653	461
45°	603	582	540	510	499	465
55°	458	434	392	358	346	409
65°	310	284	245	215	203	307
75°	165	143	111	94	89	174
85°	41	28	24	23	22	45
90°	0	4	7	10	11	4
95°	30	30	35	38	39	31
105°	104	106	109	111	113	110
115°	196	198	198	198	198	194
125°	286	288	289	288	288	256
135°	372	374	375	375	373	286
145°	450	452	453	453	452	281
155°	515	515	516	517	515	237
165°	560	559	560	562	559	158
175°	582	580	580	583	580	55
180°	584	584	584	584	584	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	993.4	993.4	993.4	993.4	993.4
2.5°	995.6	993.4	985.9	993.4	992.6
5°	991.9	988.9	980.6	988.1	986.6
7.5°	984.4	981.4	971.6	977.6	976.1
10°	973.1	970.9	960.4	962.6	960.4
12.5°	960.4	957.4	942.4	943.9	940.1
15°	943.1	938.6	922.9	922.1	915.3
17.5°	925.1	918.3	899.6	895.8	890.6
20°	903.3	895.8	871.8	868.1	861.3
22.5°	879.3	871.8	846.3	838.1	832.8
25°	855.3	844.1	816.3	806.6	798.3
27.5°	828.3	814.8	785.5	772.8	764.5
30°	798.3	784.0	752.5	735.3	728.5
32.5°	769.0	751.8	719.5	700.0	691.0
35°	736.8	718.8	685.0	663.3	652.7
37.5°	706.0	684.3	649.7	624.2	613.7
40°	673.0	650.5	614.5	586.0	577.0
42.5°	638.5	615.2	577.7	550.7	536.5
45°	603.2	581.5	540.2	510.2	498.9
47.5°	566.5	544.0	502.7	471.9	459.2
50°	532.0	507.2	464.4	432.9	421.7
52.5°	494.4	468.9	429.2	394.7	383.4
55°	457.7	433.7	391.6	357.9	345.9
57.5°	420.2	394.7	354.1	321.1	310.6
60°	384.1	357.9	317.4	284.4	273.1
62.5°	345.9	321.1	279.9	249.8	238.6
65°	309.9	284.4	244.6	214.6	203.3
67.5°	273.9	248.3	210.1	181.6	172.6
70°	237.1	211.6	174.1	150.8	141.8
72.5°	201.1	176.3	141.8	120.8	115.5
75°	165.1	142.6	111.0	94.5	89.3
77.5°	128.3	110.3	84.0	71.3	66.8
80°	97.5	79.5	58.5	51.8	50.3
82.5°	67.5	51.8	39.0	36.8	36.0
85°	41.3	27.8	24.0	23.3	22.5
87.5°	17.3	12.0	11.3	11.3	10.5
90°	0.5	4.1	7.3	9.5	10.9
92.5°	13.6	15.9	20.0	23.2	24.1
95°	29.5	30.4	35.0	38.2	39.1
97.5°	45.4	45.9	52.2	55.0	55.4
100°	63.6	63.6	69.5	73.6	74.5
102.5°	83.1	85.4	87.7	92.2	93.6
105°	103.6	105.8	108.6	111.3	112.7
107.5°	125.8	128.1	130.4	131.7	131.7
110°	149.0	151.3	152.6	154.0	153.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	172.6	173.5	175.3	175.8	174.9
115°	195.8	197.6	198.5	198.1	197.6
117.5°	219.4	219.9	220.8	221.2	219.4
120°	241.2	243.5	243.9	243.9	242.1
122.5°	264.8	265.3	266.6	266.2	264.8
125°	285.7	288.4	288.9	288.0	287.5
127.5°	308.9	310.3	310.7	310.3	309.3
130°	329.3	331.6	332.5	332.1	331.1
132.5°	349.8	353.9	353.4	353.0	351.6
135°	371.6	374.3	374.8	374.8	372.9
137.5°	392.0	394.7	395.7	396.1	393.8
140°	411.6	413.8	415.2	416.1	413.8
142.5°	431.1	432.9	434.7	435.2	432.9
145°	450.2	452.0	453.3	453.3	452.0
147.5°	467.9	469.2	470.1	471.5	467.9
150°	485.6	485.1	487.0	487.0	486.0
152.5°	500.1	501.0	501.5	502.9	501.0
155°	515.1	515.1	515.6	517.4	515.1
157.5°	528.7	527.8	528.3	530.1	526.9
160°	540.6	539.2	539.6	541.5	539.2
162.5°	551.0	550.1	550.1	552.4	549.6
165°	560.1	559.2	559.6	561.5	558.7
167.5°	568.3	566.4	566.4	569.2	566.4
170°	574.6	572.8	572.8	575.5	572.4
172.5°	579.2	577.4	577.4	580.1	577.4
175°	582.3	580.5	580.5	583.3	580.1
177.5°	584.6	582.8	582.3	585.1	581.9
180°	583.7	583.7	583.7	583.7	583.7

(END OF REPORT)