

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: P1027241

Luminaire Tested: S125RDIP-B610D610UB2750-4F0-XX-W2A-F_3500K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027241
REPORT IS A COMBINATION OF REPORTS P1005652 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIP-B610D610UB2750-4F0-XX-W2A-F_3500K
Description: Define 5 Regressed Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721}
{m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

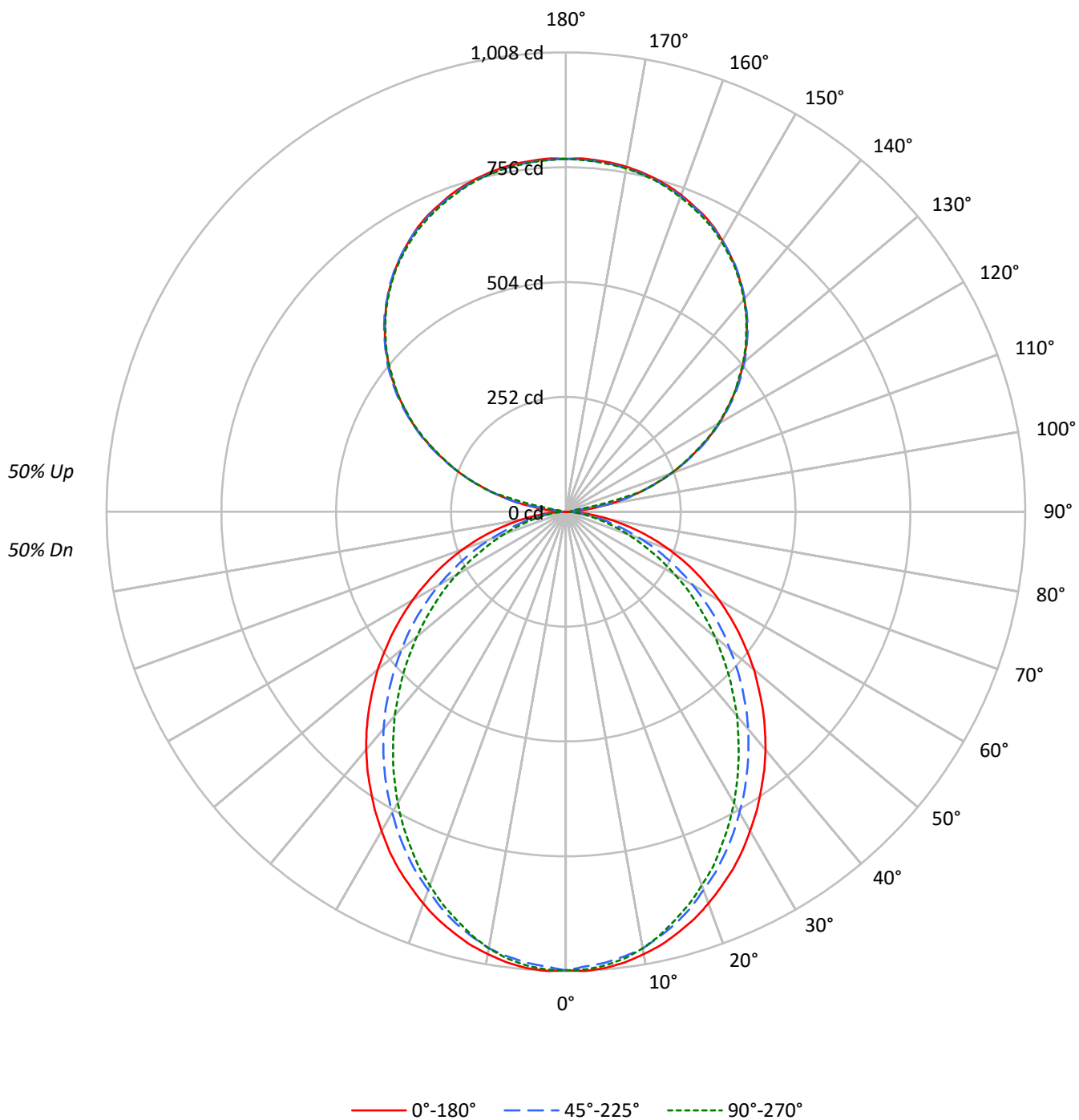
Lumens per Lamp: N/A
Luminaire Lumens: 4757.0 lumens
Efficiency: N/A
Efficacy: 120.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 39.4
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: P1027241

CATALOG NUMBER: S125RDIP-B610D610UB2750-4F0-XX-W2A-F_3500K

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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	56	56	56
1	98	94	90	87	90	87	83	80	73	71	69	61	60	58	50	49	48	48	48	43
2	89	82	76	71	82	76	71	66	65	61	57	54	51	49	44	42	41	41	41	36
3	82	72	65	59	75	67	61	56	57	52	48	48	44	42	39	37	35	35	35	31
4	75	64	56	50	69	60	53	47	51	46	41	43	39	36	35	32	30	30	30	27
5	69	57	49	43	63	53	46	41	46	40	36	38	34	31	32	29	26	26	26	23
6	63	51	43	38	58	48	41	36	41	36	31	35	31	27	29	26	23	23	23	20
7	59	46	39	33	54	43	36	31	37	32	28	32	27	24	26	23	21	21	21	18
8	54	42	35	29	50	39	33	28	34	29	25	29	25	22	24	21	19	19	19	16
9	51	39	31	26	47	36	29	25	31	26	22	27	23	19	23	19	17	17	17	15
10	47	35	28	23	44	33	27	22	29	24	20	25	21	18	21	18	15	15	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6446	6446	6446
5°	6447	6286	6295
10°	6384	6127	6073
15°	6294	5905	5780
20°	6182	5639	5473
25°	6054	5378	5144
30°	5896	5092	4799
35°	5736	4801	4432
40°	5584	4502	4073
45°	5400	4180	3698
50°	5215	3838	3316
55°	4999	3501	2920
60°	4779	3115	2510
65°	4515	2684	2066
70°	4209	2186	1626
75°	3786	1644	1185
80°	3193	1065	799
85°	2390	571	450

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5400 cd/sqm

TEST NUMBER: P1027241

CATALOG NUMBER: S125RDIP-B610D610UB2750-4F0-XX-W2A-F_3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.7	2.0
10°-20°	264.6	5.6
20°-30°	383.7	8.1
30°-40°	437.1	9.2
40°-50°	426.1	9.0
50°-60°	358.6	7.5
60°-70°	251.3	5.3
70°-80°	128.8	2.7
80°-90°	33.3	0.7
90°-100°	26.3	0.6
100°-110°	174.8	3.7
110°-120°	314.7	6.6
120°-130°	404.0	8.5
130°-140°	434.5	9.1
140°-150°	407.8	8.6
150°-160°	329.9	6.9
160°-170°	213.3	4.5
170°-180°	73.6	1.5
0°-30°	743.0	15.6
0°-40°	1180.1	24.8
0°-60°	1964.8	41.3
0°-90°	2378.1	50.0
90°-120°	515.8	10.8
90°-150°	1762.1	37.0
90°-180°	2379.0	50.0
0°-180°	4757.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1006	1006	1006	1006	1006	
5°	1005	1002	993	1001	999	95
15°	955	951	935	934	927	269
25°	866	855	827	817	808	399
35°	746	728	694	672	661	467
45°	611	589	547	517	505	471
55°	464	439	397	362	350	414
65°	314	288	248	217	206	311
75°	167	144	112	96	90	177
85°	42	28	24	24	23	46
90°	1	5	9	12	14	4
95°	33	31	9	12	12	40
105°	169	171	171	171	170	179
115°	317	320	320	318	315	314
125°	451	455	455	452	451	403
135°	562	566	564	563	560	433
145°	652	653	653	653	650	408
155°	718	714	715	717	712	331
165°	757	754	754	758	753	214
175°	774	771	772	776	771	74
180°	774	774	774	774	774	

TEST NUMBER: P1027241

CATALOG NUMBER: S125RDIP-B610D610UB2750-4F0-XX-W2A-F_3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1006.1	1006.1	1006.1	1006.1	1006.1
2.5°	1008.4	1006.1	998.5	1006.1	1005.3
5°	1004.6	1001.5	993.2	1000.8	999.2
7.5°	997.0	993.9	984.0	990.1	988.6
10°	985.6	983.3	972.6	974.9	972.6
12.5°	972.6	969.6	954.4	955.9	952.1
15°	955.2	950.6	934.6	933.9	927.0
17.5°	936.9	930.1	911.1	907.3	902.0
20°	914.9	907.3	883.0	879.2	872.3
22.5°	890.6	883.0	857.1	848.8	843.5
25°	866.3	854.9	826.7	816.9	808.5
27.5°	838.9	825.2	795.6	782.7	774.3
30°	808.5	794.1	762.2	744.7	737.8
32.5°	778.9	761.4	728.7	709.0	699.8
35°	746.2	728.0	693.8	671.7	661.1
37.5°	715.0	693.0	658.1	632.2	621.6
40°	681.6	658.8	622.3	593.5	584.3
42.5°	646.7	623.1	585.1	557.7	543.3
45°	610.9	588.9	547.1	516.7	505.3
47.5°	573.7	550.9	509.1	478.0	465.0
50°	538.8	513.7	470.4	438.4	427.1
52.5°	500.8	474.9	434.6	399.7	388.3
55°	463.5	439.2	396.7	362.5	350.3
57.5°	425.5	399.7	358.7	325.2	314.6
60°	389.1	362.5	321.4	288.0	276.6
62.5°	350.3	325.2	283.4	253.0	241.6
65°	313.8	288.0	247.7	217.3	205.9
67.5°	277.4	251.5	212.8	183.9	174.8
70°	240.1	214.3	176.3	152.7	143.6
72.5°	203.6	178.6	143.6	122.3	117.0
75°	167.2	144.4	112.5	95.7	90.4
77.5°	129.9	111.7	85.1	72.2	67.6
80°	98.8	80.5	59.3	52.4	50.9
82.5°	68.4	52.4	39.5	37.2	36.5
85°	41.8	28.1	24.3	23.6	22.8
87.5°	17.5	12.2	11.4	11.4	10.6
90°	0.6	5.2	9.2	12.1	13.8
92.5°	10.9	5.7	9.2	12.1	12.6
95°	32.7	31.0	9.2	12.1	12.1
97.5°	61.4	64.9	10.3	11.5	12.1
100°	95.9	97.6	99.9	14.4	12.1
102.5°	130.9	133.2	134.3	135.5	87.3
105°	168.8	171.1	171.1	171.1	170.5
107.5°	207.8	207.8	209.0	209.5	207.2
110°	245.7	245.7	246.8	245.1	245.7

TEST NUMBER: P1027241

CATALOG NUMBER: S125RDIP-B610D610UB2750-4F0-XX-W2A-F_3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	281.3	283.0	283.6	281.3	280.1
115°	316.9	319.8	320.3	318.0	314.6
117.5°	354.2	354.2	356.5	353.1	351.9
120°	388.6	388.1	389.8	388.6	385.8
122.5°	419.1	421.9	422.5	421.4	417.9
125°	450.6	454.7	454.7	452.4	450.6
127.5°	481.1	483.9	483.4	482.2	477.6
130°	508.6	511.5	512.1	510.3	507.5
132.5°	536.2	539.6	537.9	537.9	535.0
135°	562.0	565.5	564.3	563.2	559.7
137.5°	586.1	589.6	588.4	588.4	585.6
140°	609.7	610.8	610.2	611.4	607.9
142.5°	630.9	631.5	632.6	632.6	629.2
145°	651.6	652.7	652.7	653.3	649.8
147.5°	669.9	669.9	670.5	671.1	667.1
150°	687.2	686.0	687.2	688.3	683.7
152.5°	703.8	700.9	702.1	703.2	699.2
155°	717.6	714.1	715.3	717.0	712.4
157.5°	728.5	726.8	726.8	728.5	723.9
160°	740.0	736.5	737.1	739.4	734.8
162.5°	749.2	745.7	746.3	749.7	744.6
165°	757.2	753.8	754.3	757.8	753.2
167.5°	763.5	760.1	760.6	764.7	759.5
170°	768.7	764.7	765.2	769.8	764.7
172.5°	772.1	768.1	769.3	773.3	768.1
175°	774.4	771.0	771.5	776.1	771.0
177.5°	776.1	772.7	773.3	777.3	772.7
180°	774.4	774.4	774.4	774.4	774.4

(END OF REPORT)