

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: P1007188

Luminaire Tested: S125RDR-B610DB2750-4F0-XX-W2A-F_3500K

Issue Date: 5/2/2025

Test Information

Test Method: LM-79-2019
Report Number: P1007188
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/2/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-B610DB2750-4F0-XX-W2A-F_3500K
Description: Define 5 Regressed Direct Recessed with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

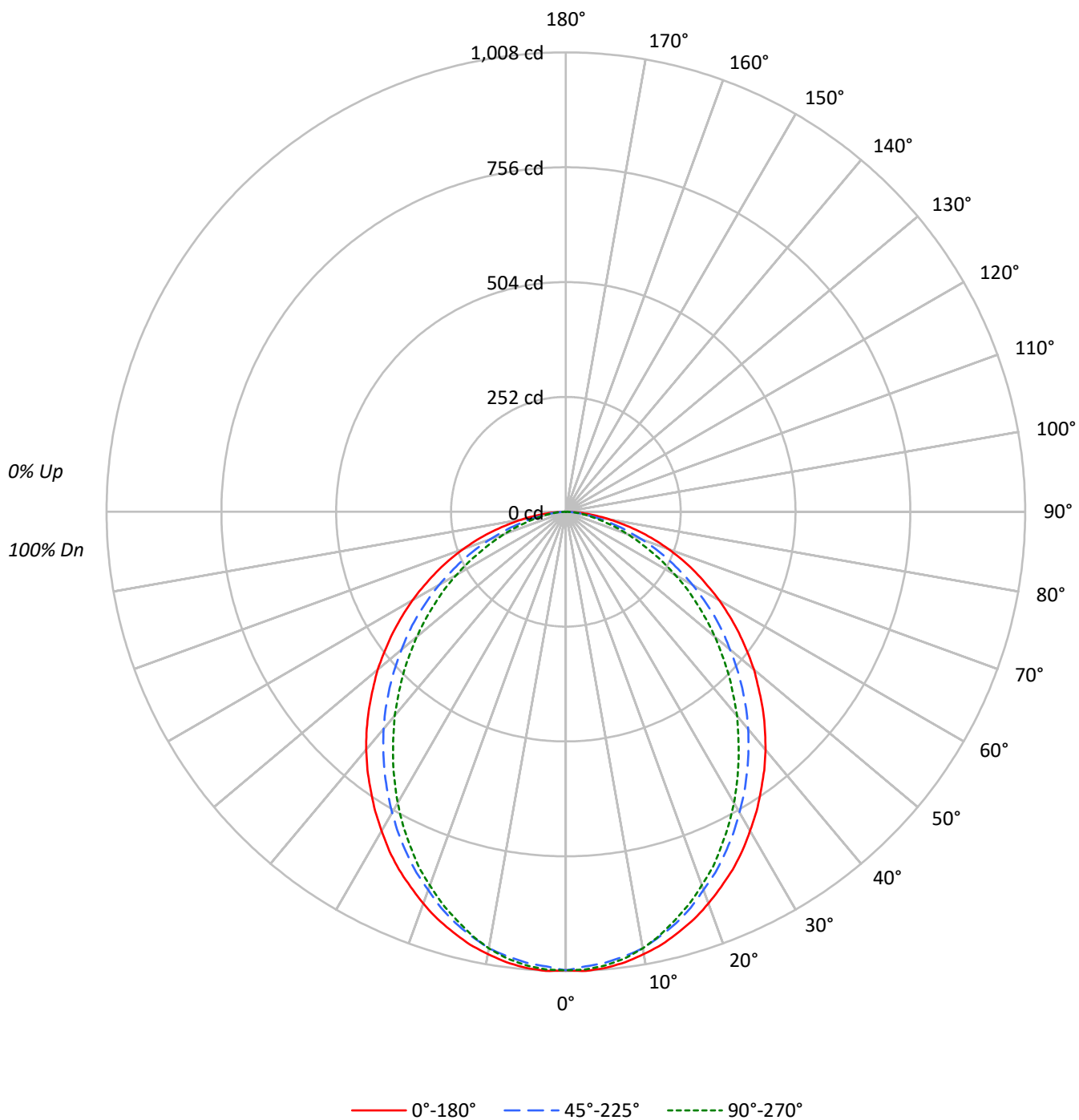
Lumens per Lamp: N/A
Luminaire Lumens: 2377.0 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 24
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	109	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85		
2	100	92	86	80	98	90	84	79	87	82	78	84	79	76	81	77	74	72		
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	61		
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	64	59	55	53		
5	78	65	57	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46		
6	72	59	50	44	70	58	50	44	56	49	44	55	48	43	53	47	43	41		
7	67	54	45	39	65	53	45	39	51	44	39	50	43	39	49	43	38	36		
8	62	49	41	35	61	48	41	35	47	40	35	46	39	35	45	39	34	33		
9	58	45	37	32	57	45	37	32	44	37	32	42	36	31	41	36	31	29		
10	55	42	34	29	54	41	34	29	40	34	29	39	33	29	39	33	29	27		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6446	6446	6446
5°	6461	6388	6426
10°	6412	6328	6328
15°	6336	6199	6149
20°	6238	6021	5948
25°	6124	5844	5716
30°	5982	5639	5458
35°	5836	5427	5171
40°	5701	5205	4887
45°	5535	4957	4579
50°	5371	4689	4257
55°	5177	4431	3913
60°	4986	4118	3544
65°	4757	3755	3122
70°	4498	3303	2690
75°	4139	2785	2238
80°	3645	2188	1878
85°	3073	1786	1676

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5535 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.7	4.0
10°-20°	264.6	11.1
20°-30°	383.7	16.1
30°-40°	437.1	18.4
40°-50°	426.1	17.9
50°-60°	358.6	15.1
60°-70°	251.3	10.6
70°-80°	128.8	5.4
80°-90°	32.1	1.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	743.0	31.3
0°-40°	1180.1	49.6
0°-60°	1964.8	82.7
0°-90°	2377.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2377.0	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	48
90°	0	0	0	0	0	

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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°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)