

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: P1061692

Luminaire Tested: S125RDR-S610D835-X4F0-XX-UDD-WVL-B

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1061692  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-46)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125RDR-S610D835-X4F0-XX-UDD-WVL-B  
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: -

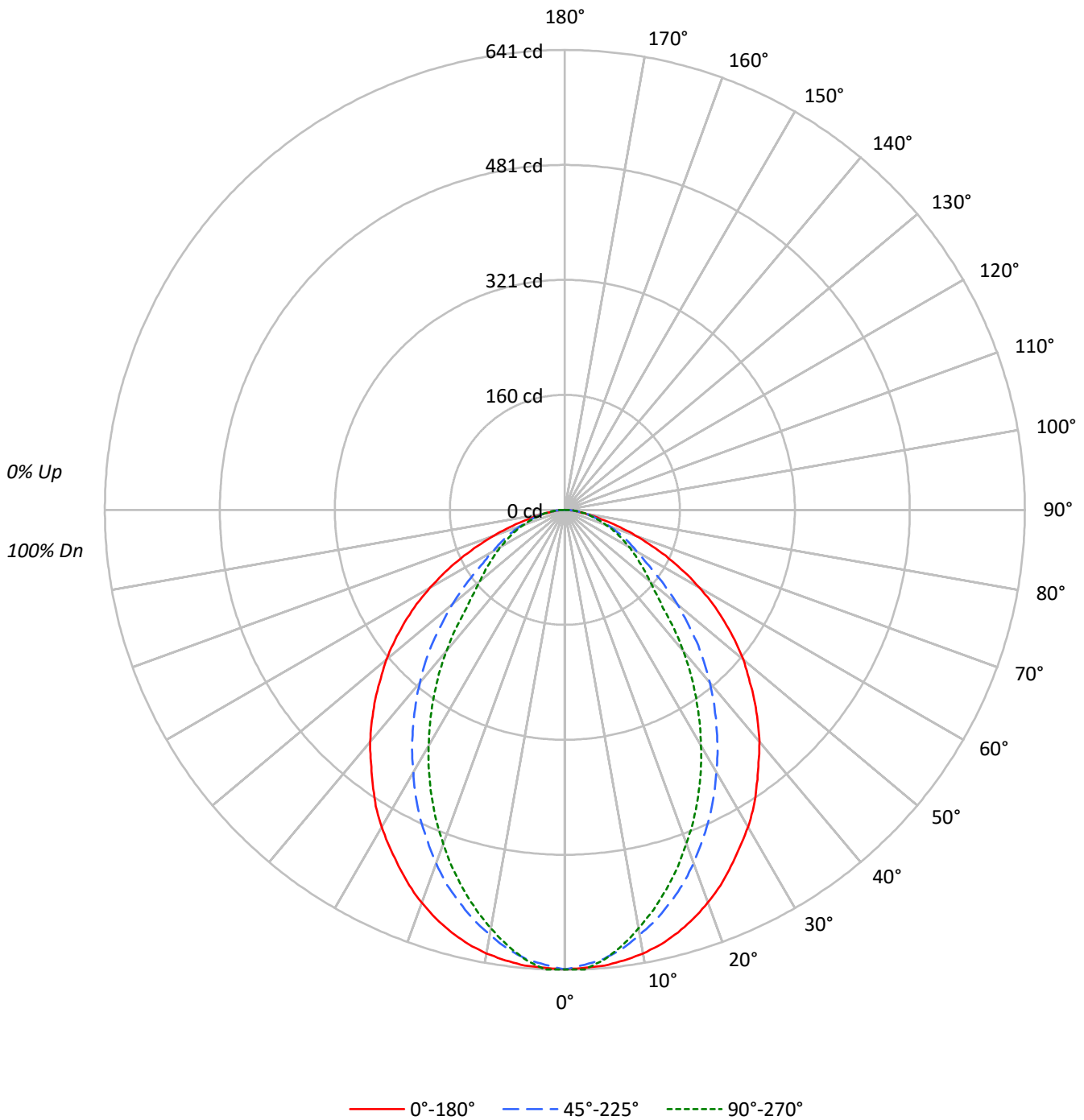
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1213.2 lumens  
Efficiency: N/A  
Efficacy: 61.9 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 0.95 / 1.11  
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 19.6  
Input Voltage (V): 120  
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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87				
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	80	77	75				
3	93	84	77	71	91	82	76	70	80	74	69	77	72	68	74	70	67	65				
4	86	75	68	61	84	74	67	61	72	65	60	70	64	59	67	63	59	57				
5	80	68	60	54	78	67	59	54	65	58	53	63	57	53	61	56	52	50				
6	74	62	54	48	73	61	53	48	59	53	47	58	52	47	56	51	47	45				
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	40				
8	65	52	44	39	63	52	44	39	50	43	39	49	43	38	48	42	38	36				
9	61	48	41	35	60	48	40	35	47	40	35	46	39	35	45	39	35	33				
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	30				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	4409	4409	4409
5°	4407	4340	4349
10°	4390	4205	4142
15°	4347	4040	3901
20°	4270	3842	3628
25°	4162	3613	3339
30°	4058	3356	3019
35°	3922	3097	2677
40°	3794	2825	2306
45°	3636	2526	1889
50°	3478	2189	1654
55°	3264	1828	1527
60°	2977	1599	1427
65°	2605	1461	1326
70°	2114	1317	1232
75°	1516	1202	1147
80°	1047	1075	1075
85°	766	932	987

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 3636 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	59.5	4.9
10°-20°	161.0	13.3
20°-30°	222.6	18.3
30°-40°	237.1	19.5
40°-50°	208.3	17.2
50°-60°	157.9	13.0
60°-70°	102.5	8.5
70°-80°	50.8	4.2
80°-90°	13.3	1.1
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°	443.2	36.5
0°-40°	680.3	56.1
0°-60°	1046.5	86.3
0°-90°	1213.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1213.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	640	640	640	640	640	
5°	638	636	628	630	629	61
15°	610	596	567	554	547	172
25°	548	518	476	451	440	252
35°	467	424	368	335	318	292
45°	373	321	259	213	194	288
55°	272	218	152	131	127	243
65°	160	119	90	83	81	158
75°	57	50	45	44	43	64
85°	10	11	12	12	12	12
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	640.4	640.4	640.4	640.4	640.4
2.5°	639.0	640.4	634.8	639.7	641.1
5°	637.6	636.2	627.9	630.0	629.3
7.5°	633.4	630.7	616.8	615.4	612.6
10°	627.9	620.9	601.5	596.6	592.4
12.5°	620.2	609.1	585.5	575.7	570.9
15°	609.8	595.9	566.7	553.5	547.2
17.5°	597.3	577.8	547.2	529.1	522.2
20°	582.7	559.7	524.3	503.4	495.1
22.5°	566.7	539.6	499.9	477.7	468.7
25°	547.9	518.0	475.6	451.3	439.5
27.5°	529.1	495.8	449.9	422.8	410.2
30°	510.4	472.1	422.1	392.9	379.7
32.5°	490.2	447.8	396.3	364.4	349.1
35°	466.6	423.5	368.5	335.2	318.5
37.5°	443.6	397.7	341.4	303.9	287.9
40°	422.1	373.4	314.3	273.3	256.6
42.5°	397.7	347.7	287.2	244.1	225.3
45°	373.4	321.2	259.4	212.8	194.0
47.5°	347.7	296.2	230.2	184.3	171.7
50°	324.7	270.5	204.4	162.7	154.4
52.5°	298.3	245.5	178.0	146.0	140.5
55°	271.9	218.3	152.3	131.4	127.2
57.5°	244.8	194.0	132.1	118.9	114.7
60°	216.2	169.0	116.1	105.7	103.6
62.5°	187.7	143.2	102.2	94.6	91.8
65°	159.9	118.9	89.7	82.7	81.4
67.5°	131.4	96.7	77.2	72.3	71.6
70°	105.0	78.6	65.4	62.6	61.2
72.5°	80.7	62.6	54.9	52.8	52.2
75°	57.0	50.1	45.2	43.8	43.1
77.5°	38.2	38.2	36.2	34.8	35.5
80°	26.4	27.8	27.1	27.1	27.1
82.5°	17.4	18.8	19.5	19.5	19.5
85°	9.7	11.1	11.8	11.8	12.5
87.5°	3.5	4.2	4.9	5.6	5.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)