

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: P1175420

Luminaire Tested: S125RDR-H610D835-X4F0-XX-UDD-WVL-W

Issue Date: 8/18/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1175420  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-82)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/18/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125RDR-H610D835-X4F0-XX-UDD-WVL-W  
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE  
LOUVER WITH DIFFUSER  
HIGH PERFORMANCE LIGHT ENGINE  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: -

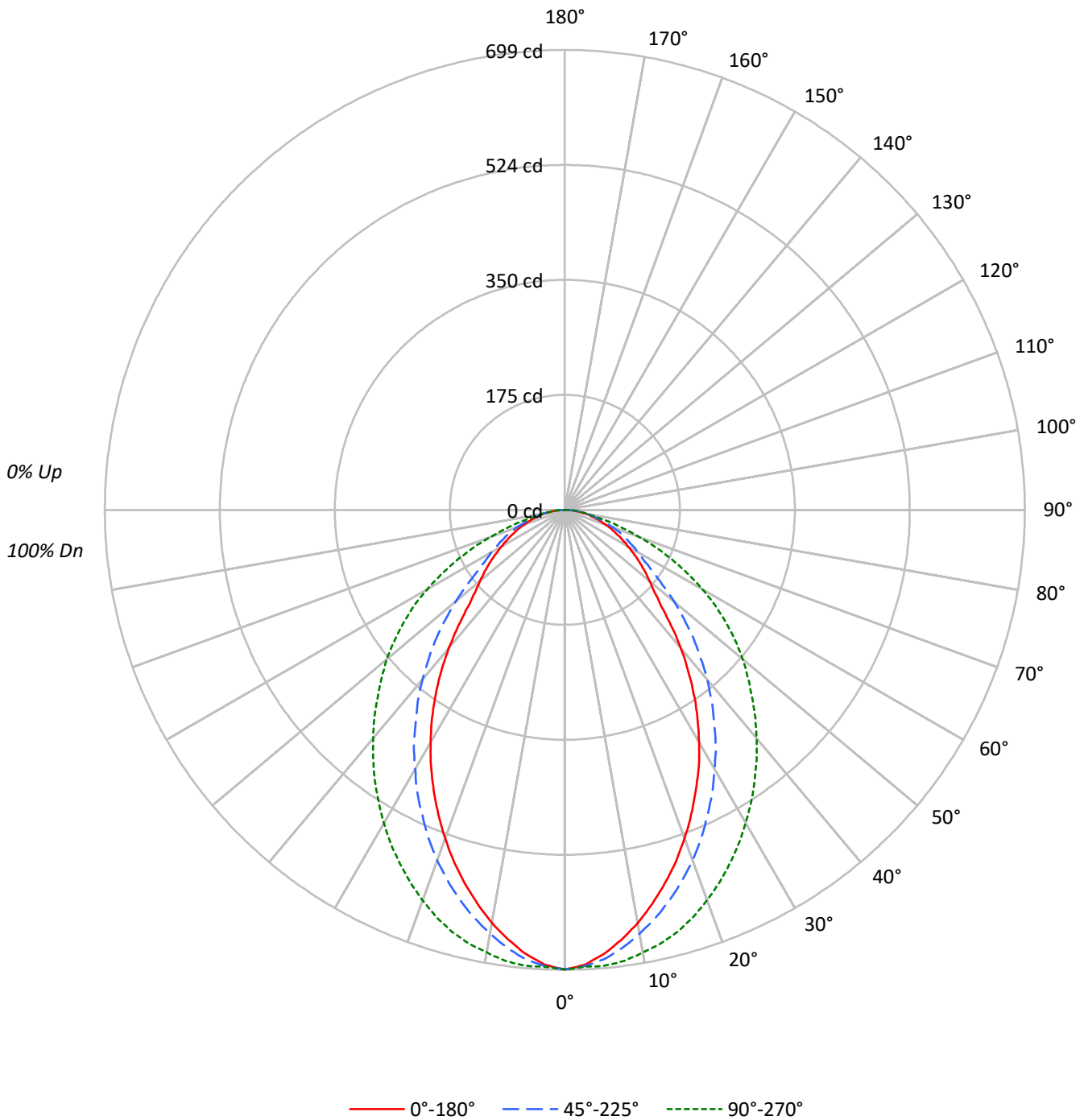
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1316.2 lumens  
Efficiency: N/A  
Efficacy: 75.6 lumens/watt  
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12  
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 17.4  
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	107	104	100	97	99	97	94	96	93	91	92	90	88	86				
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76	74				
3	93	84	76	71	91	82	75	70	79	73	69	77	72	68	74	70	66	64				
4	86	75	67	61	84	74	66	61	72	65	60	69	64	59	67	62	58	56				
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50				
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44				
7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40				
8	65	52	44	39	63	51	44	39	50	43	38	49	43	38	48	42	38	36				
9	61	48	40	35	59	48	40	35	46	40	35	45	39	35	44	39	35	33				
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30				

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

	0°	45°	90°
0°	4810	4810	4810
5°	4685	4739	4808
10°	4458	4574	4777
15°	4189	4380	4731
20°	3894	4154	4628
25°	3577	3893	4506
30°	3244	3617	4371
35°	2871	3325	4227
40°	2463	3023	4072
45°	2021	2691	3915
50°	1797	2313	3780
55°	1659	1936	3588
60°	1527	1764	3324
65°	1421	1662	2937
70°	1325	1552	2400
75°	1248	1437	1798
80°	1178	1316	1293
85°	1074	1311	1074

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 3915 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	64.7	4.9
10°-20°	174.3	13.2
20°-30°	239.8	18.2
30°-40°	254.4	19.3
40°-50°	222.6	16.9
50°-60°	170.8	13.0
60°-70°	113.8	8.6
70°-80°	58.3	4.4
80°-90°	17.3	1.3
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°	478.9	36.4
0°-40°	733.2	55.7
0°-60°	1126.7	85.6
0°-90°	1316.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1316.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	699	699	699	699	699	
5°	678	687	686	690	696	63
15°	588	601	614	644	664	165
25°	471	487	512	556	593	216
35°	342	358	396	454	503	213
45°	208	225	276	345	402	164
55°	138	141	161	240	299	124
65°	87	88	102	134	180	87
75°	47	50	54	57	68	50
85°	14	15	17	16	14	15
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	698.6	698.6	698.6	698.6	698.6
2.5°	692.1	699.2	693.9	694.5	695.1
5°	677.9	686.8	685.6	690.3	695.7
7.5°	658.9	668.4	671.4	683.2	691.5
10°	637.6	648.2	654.2	672.0	683.2
12.5°	613.2	625.7	635.2	658.3	674.9
15°	587.7	601.4	614.4	643.5	663.7
17.5°	560.5	574.1	591.3	624.5	648.8
20°	531.4	546.2	567.0	602.6	631.6
22.5°	501.7	517.2	540.9	580.0	613.2
25°	470.9	486.9	512.4	555.7	593.1
27.5°	440.7	455.5	485.1	531.4	572.3
30°	408.0	423.5	454.9	505.9	549.8
32.5°	375.4	390.8	427.0	480.4	526.7
35°	341.6	357.6	395.6	453.7	502.9
37.5°	307.8	324.4	366.5	426.4	478.6
40°	274.0	291.8	336.3	399.1	453.1
42.5°	239.6	258.6	305.4	372.5	428.2
45°	207.6	224.8	276.4	345.2	402.1
47.5°	184.4	194.5	245.5	317.3	377.2
50°	167.8	172.6	215.9	290.6	352.9
52.5°	153.0	156.0	186.8	265.7	326.2
55°	138.2	141.2	161.3	239.6	298.9
57.5°	124.0	125.7	142.3	213.5	271.6
60°	110.9	112.1	128.1	187.4	241.4
62.5°	99.0	99.6	114.5	160.7	211.1
65°	87.2	87.8	102.0	134.0	180.3
67.5°	76.5	76.5	90.1	109.7	150.6
70°	65.8	65.8	77.1	89.0	119.2
72.5°	56.3	57.5	65.2	71.8	93.1
75°	46.9	49.8	54.0	56.9	67.6
77.5°	38.0	41.5	43.3	44.5	45.1
80°	29.7	32.0	33.2	33.8	32.6
82.5°	21.9	23.7	24.3	24.3	22.5
85°	13.6	15.4	16.6	16.0	13.6
87.5°	6.5	8.9	9.5	8.3	6.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)