

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: P1175422

Luminaire Tested: S125RDR-H610D850-X4F0-XX-UDD-WVL-W

Issue Date: 8/18/2025

Test Information

Test Method: LM-79-2019
Report Number: P1175422
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-H610D850-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: 5000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

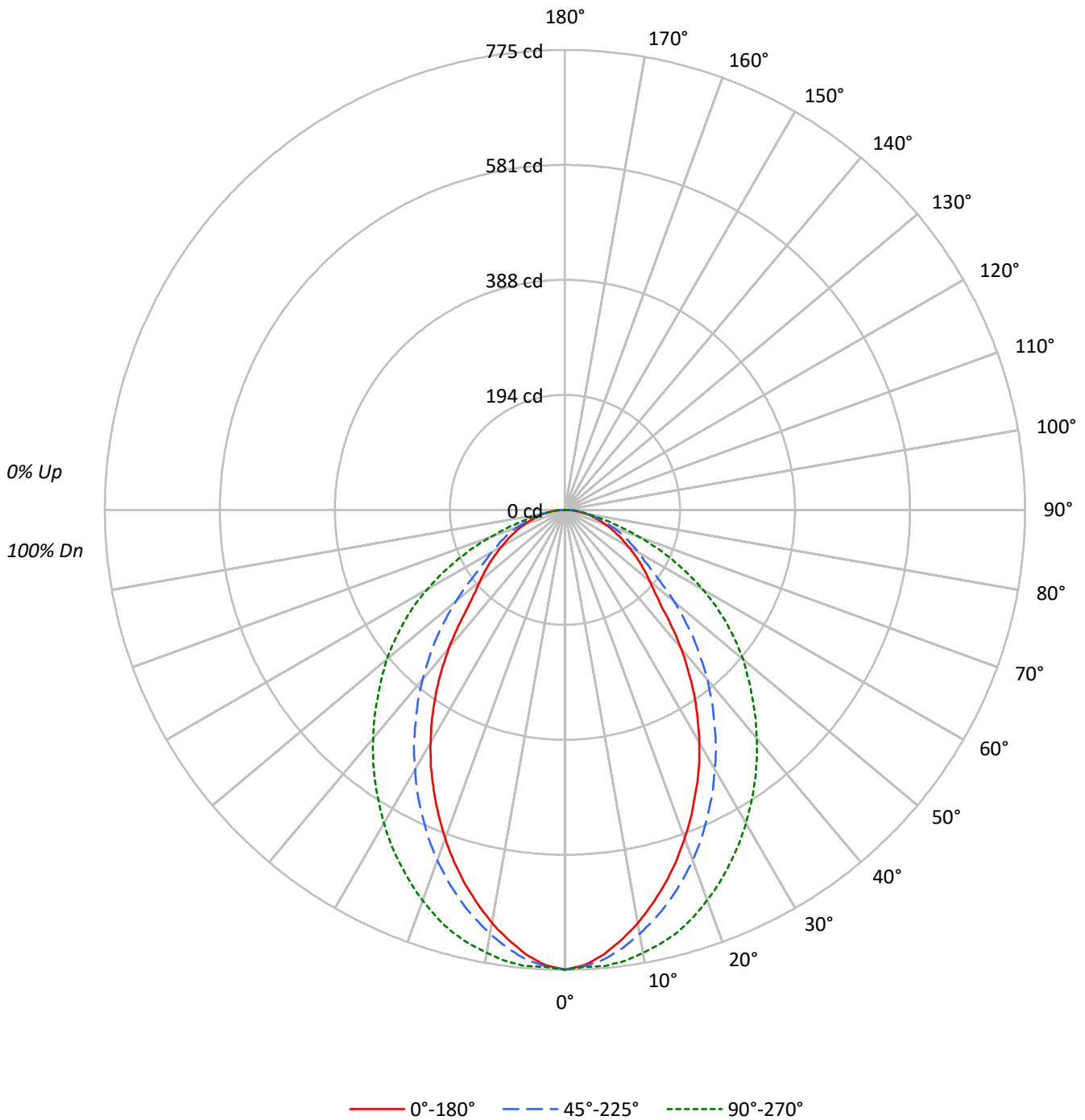
Lumens per Lamp: N/A
Luminaire Lumens: 1459.6 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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°	5335	5335	5335
5°	5196	5255	5332
10°	4944	5072	5297
15°	4646	4857	5246
20°	4318	4607	5133
25°	3967	4317	4997
30°	3598	4011	4847
35°	3184	3687	4688
40°	2731	3352	4516
45°	2242	2984	4342
50°	1993	2564	4191
55°	1839	2148	3979
60°	1694	1957	3686
65°	1575	1843	3257
70°	1470	1721	2661
75°	1383	1593	1995
80°	1305	1459	1435
85°	1193	1454	1193

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4342 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.7	4.9
10°-20°	193.3	13.2
20°-30°	266.0	18.2
30°-40°	282.1	19.3
40°-50°	246.9	16.9
50°-60°	189.5	13.0
60°-70°	126.2	8.6
70°-80°	64.7	4.4
80°-90°	19.2	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°	531.0	36.4
0°-40°	813.2	55.7
0°-60°	1249.5	85.6
0°-90°	1459.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1459.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	775	775	775	775	775	
5°	752	762	760	766	772	70
15°	652	667	681	714	736	183
25°	522	540	568	616	658	240
35°	379	397	439	503	558	236
45°	230	249	306	383	446	182
55°	153	156	179	266	332	137
65°	97	97	113	149	200	96
75°	52	55	60	63	75	55
85°	15	17	18	18	15	17
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	774.8	774.8	774.8	774.8	774.8
2.5°	767.6	775.5	769.5	770.2	770.8
5°	751.8	761.6	760.3	765.6	771.5
7.5°	730.7	741.3	744.5	757.7	766.9
10°	707.1	718.9	725.5	745.2	757.7
12.5°	680.1	693.9	704.4	730.1	748.5
15°	651.8	666.9	681.4	713.6	736.0
17.5°	621.5	636.7	655.7	692.6	719.5
20°	589.3	605.8	628.8	668.2	700.5
22.5°	556.4	573.5	599.8	643.3	680.1
25°	522.2	540.0	568.3	616.3	657.7
27.5°	488.7	505.1	538.0	589.3	634.7
30°	452.5	469.6	504.5	561.0	609.7
32.5°	416.3	433.4	473.6	532.8	584.1
35°	378.8	396.6	438.7	503.2	557.7
37.5°	341.4	359.8	406.5	472.9	530.8
40°	303.9	323.6	372.9	442.6	502.5
42.5°	265.7	286.8	338.7	413.0	474.9
45°	230.2	249.3	306.5	382.8	445.9
47.5°	204.6	215.7	272.3	351.9	418.3
50°	186.1	191.4	239.4	322.3	391.3
52.5°	169.7	173.0	207.2	294.7	361.7
55°	153.2	156.5	178.9	265.7	331.5
57.5°	137.5	139.4	157.9	236.8	301.2
60°	123.0	124.3	142.1	207.8	267.7
62.5°	109.8	110.5	126.9	178.2	234.1
65°	96.7	97.3	113.1	148.6	199.9
67.5°	84.8	84.8	100.0	121.7	167.1
70°	73.0	73.0	85.5	98.7	132.2
72.5°	62.5	63.8	72.3	79.6	103.3
75°	52.0	55.2	59.9	63.1	75.0
77.5°	42.1	46.0	48.0	49.3	50.0
80°	32.9	35.5	36.8	37.5	36.2
82.5°	24.3	26.3	27.0	27.0	25.0
85°	15.1	17.1	18.4	17.8	15.1
87.5°	7.2	9.9	10.5	9.2	7.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)