

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: P1175419

Luminaire Tested: S125RDR-H610D830-X4F0-XX-UDD-WVL-W

Issue Date: 8/18/2025

Test Information

Test Method: LM-79-2019
Report Number: P1175419
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-H610D830-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: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

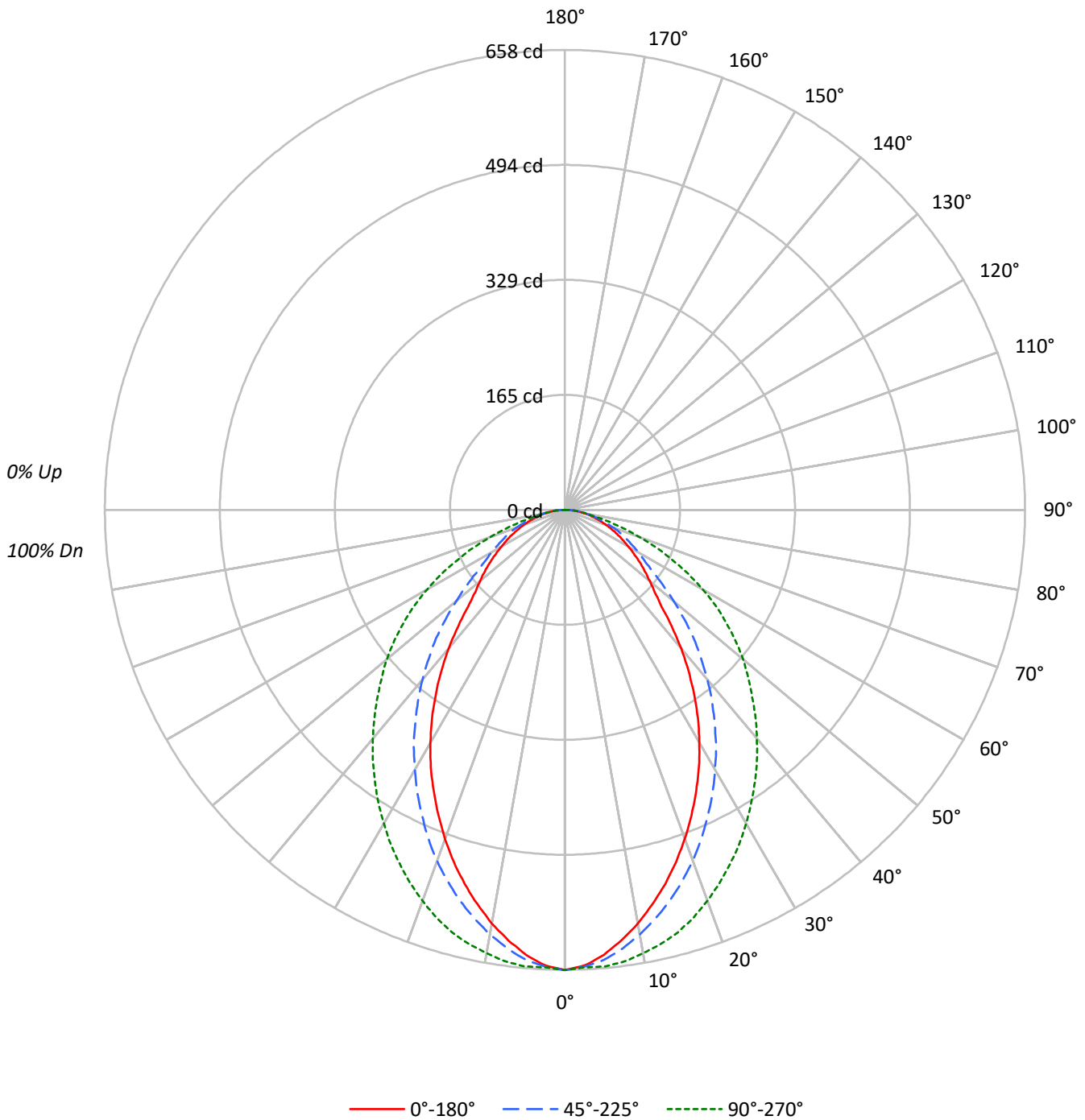
Lumens per Lamp: N/A
Luminaire Lumens: 1240.5 lumens
Efficiency: N/A
Efficacy: 71.3 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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	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°	4534	4534	4534
5°	4416	4466	4532
10°	4201	4311	4502
15°	3949	4128	4459
20°	3670	3916	4362
25°	3372	3669	4247
30°	3058	3409	4120
35°	2707	3134	3984
40°	2322	2849	3839
45°	1905	2537	3690
50°	1695	2180	3563
55°	1563	1825	3382
60°	1439	1662	3133
65°	1339	1566	2768
70°	1248	1464	2263
75°	1176	1354	1695
80°	1106	1241	1217
85°	1019	1240	1019

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 3690 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.0	4.9
10°-20°	164.3	13.2
20°-30°	226.1	18.2
30°-40°	239.8	19.3
40°-50°	209.9	16.9
50°-60°	161.0	13.0
60°-70°	107.3	8.6
70°-80°	55.0	4.4
80°-90°	16.3	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°	451.3	36.4
0°-40°	691.1	55.7
0°-60°	1062.0	85.6
0°-90°	1240.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1240.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	658	658	658	658	658	
5°	639	647	646	651	656	60
15°	554	567	579	606	626	155
25°	444	459	483	524	559	204
35°	322	337	373	428	474	201
45°	196	212	260	325	379	154
55°	130	133	152	226	282	117
65°	82	83	96	126	170	82
75°	44	47	51	54	64	47
85°	13	14	16	15	13	15
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	658.5	658.5	658.5	658.5	658.5
2.5°	652.4	659.1	654.0	654.6	655.1
5°	638.9	647.3	646.2	650.7	655.7
7.5°	621.0	630.0	632.8	644.0	651.8
10°	600.9	611.0	616.6	633.3	644.0
12.5°	578.0	589.7	598.7	620.5	636.1
15°	554.0	566.8	579.1	606.5	625.5
17.5°	528.3	541.1	557.3	588.6	611.5
20°	500.9	514.8	534.4	567.9	595.3
22.5°	472.9	487.4	509.8	546.7	578.0
25°	443.8	458.9	483.0	523.8	559.0
27.5°	415.3	429.3	457.3	500.9	539.4
30°	384.6	399.1	428.8	476.8	518.2
32.5°	353.8	368.4	402.5	452.8	496.4
35°	322.0	337.1	372.9	427.6	474.0
37.5°	290.1	305.8	345.5	401.9	451.1
40°	258.3	275.0	317.0	376.2	427.1
42.5°	225.8	243.7	287.9	351.1	403.6
45°	195.6	211.9	260.5	325.3	379.0
47.5°	173.8	183.4	231.4	299.1	355.5
50°	158.2	162.7	203.5	273.9	332.6
52.5°	144.2	147.0	176.1	250.4	307.4
55°	130.2	133.0	152.0	225.8	281.7
57.5°	116.8	118.5	134.2	201.2	256.0
60°	104.5	105.7	120.7	176.6	227.5
62.5°	93.4	93.9	107.9	151.5	199.0
65°	82.2	82.7	96.1	126.3	169.9
67.5°	72.1	72.1	85.0	103.4	142.0
70°	62.0	62.0	72.7	83.8	112.4
72.5°	53.1	54.2	61.5	67.6	87.8
75°	44.2	47.0	50.9	53.7	63.7
77.5°	35.8	39.1	40.8	41.9	42.5
80°	27.9	30.2	31.3	31.9	30.7
82.5°	20.7	22.4	22.9	22.9	21.2
85°	12.9	14.5	15.7	15.1	12.9
87.5°	6.1	8.4	8.9	7.8	6.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)