

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: P1175421

Luminaire Tested: S125RDR-H610D840-X4F0-XX-UDD-WVL-W

Issue Date: 8/18/2025

Test Information

Test Method: LM-79-2019
Report Number: P1175421
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-H610D840-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: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

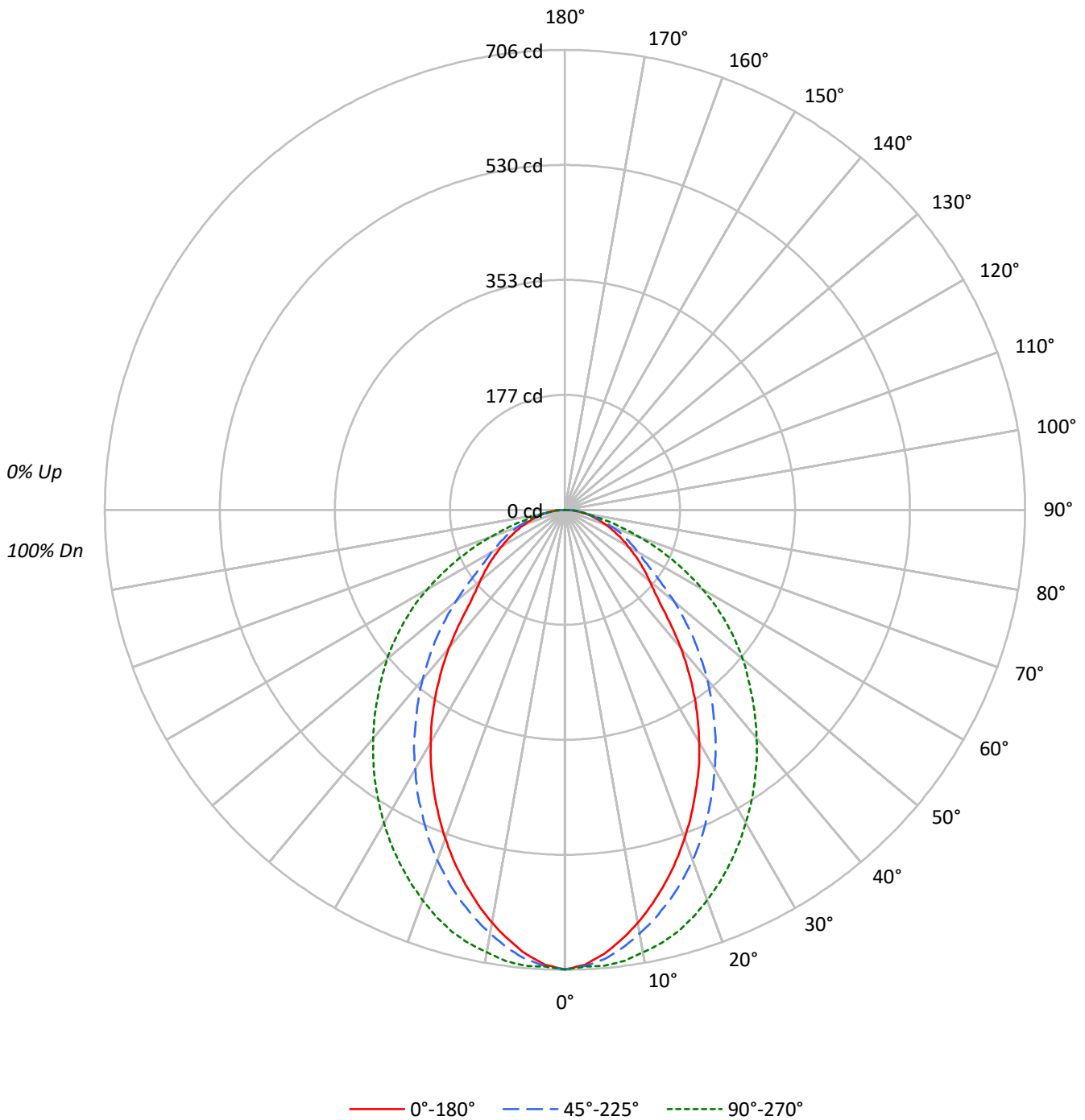
Lumens per Lamp: N/A
Luminaire Lumens: 1329.2 lumens
Efficiency: N/A
Efficacy: 76.4 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1175421

CATALOG NUMBER: S125RDR-H610D840-X4F0-XX-UDD-WVL-W

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									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	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													100															
1	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86													86															
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76	74													74															
3	93	84	76	71	91	82	75	70	79	73	69	77	72	68	74	70	66	64													64															
4	86	75	67	61	84	74	66	61	72	65	60	69	64	59	67	62	58	56													56															
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50													50															
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44													44															
7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40													40															
8	65	52	44	39	63	51	44	39	50	43	38	49	43	38	48	42	38	36													36															
9	61	48	40	35	59	48	40	35	46	40	35	45	39	35	44	39	35	33													33															
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30													30															

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4858	4858	4858
5°	4732	4786	4855
10°	4501	4619	4824
15°	4231	4423	4777
20°	3932	4196	4674
25°	3612	3931	4550
30°	3276	3652	4414
35°	2900	3358	4269
40°	2487	3052	4113
45°	2041	2718	3954
50°	1816	2335	3818
55°	1675	1955	3624
60°	1542	1782	3357
65°	1434	1678	2967
70°	1339	1568	2424
75°	1258	1450	1817
80°	1186	1328	1305
85°	1090	1327	1090

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 3954 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.3	4.9
10°-20°	176.1	13.2
20°-30°	242.2	18.2
30°-40°	256.9	19.3
40°-50°	224.8	16.9
50°-60°	172.5	13.0
60°-70°	114.9	8.6
70°-80°	58.9	4.4
80°-90°	17.5	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°	483.6	36.4
0°-40°	740.5	55.7
0°-60°	1137.8	85.6
0°-90°	1329.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1329.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	706	706	706	706	706	
5°	685	694	692	697	702	64
15°	594	607	620	650	670	166
25°	476	492	518	561	599	218
35°	345	361	400	458	508	215
45°	210	227	279	349	406	166
55°	140	142	163	242	302	125
65°	88	89	103	135	182	88
75°	47	50	54	58	68	50
85°	14	16	17	16	14	16
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	705.5	705.5	705.5	705.5	705.5
2.5°	698.9	706.1	700.7	701.3	701.9
5°	684.6	693.6	692.4	697.2	702.5
7.5°	665.4	675.0	678.0	690.0	698.3
10°	643.8	654.6	660.6	678.6	690.0
12.5°	619.3	631.9	641.5	664.8	681.6
15°	593.5	607.3	620.5	649.8	670.2
17.5°	566.0	579.8	597.1	630.7	655.2
20°	536.6	551.6	572.6	608.5	637.9
22.5°	506.7	522.3	546.2	585.8	619.3
25°	475.5	491.7	517.5	561.2	598.9
27.5°	445.0	460.0	489.9	536.6	578.0
30°	412.1	427.6	459.4	510.9	555.2
32.5°	379.1	394.7	431.2	485.1	531.8
35°	345.0	361.2	399.5	458.2	507.9
37.5°	310.8	327.6	370.1	430.6	483.3
40°	276.7	294.7	339.6	403.1	457.6
42.5°	242.0	261.1	308.4	376.1	432.4
45°	209.6	227.0	279.1	348.6	406.1
47.5°	186.3	196.4	248.0	320.4	380.9
50°	169.5	174.3	218.0	293.5	356.4
52.5°	154.5	157.5	188.7	268.3	329.4
55°	139.5	142.5	162.9	242.0	301.9
57.5°	125.2	127.0	143.7	215.6	274.3
60°	112.0	113.2	129.4	189.3	243.8
62.5°	100.0	100.6	115.6	162.3	213.2
65°	88.0	88.6	103.0	135.4	182.1
67.5°	77.3	77.3	91.0	110.8	152.1
70°	66.5	66.5	77.9	89.8	120.4
72.5°	56.9	58.1	65.9	72.5	94.0
75°	47.3	50.3	54.5	57.5	68.3
77.5°	38.3	41.9	43.7	44.9	45.5
80°	29.9	32.3	33.5	34.1	32.9
82.5°	22.2	24.0	24.6	24.6	22.8
85°	13.8	15.6	16.8	16.2	13.8
87.5°	6.6	9.0	9.6	8.4	6.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)