

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1061702

Luminaire Tested: S125RDRP-S610D840-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061702
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-85)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-S610D840-X4F0-XX-UDD-WVL-S
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

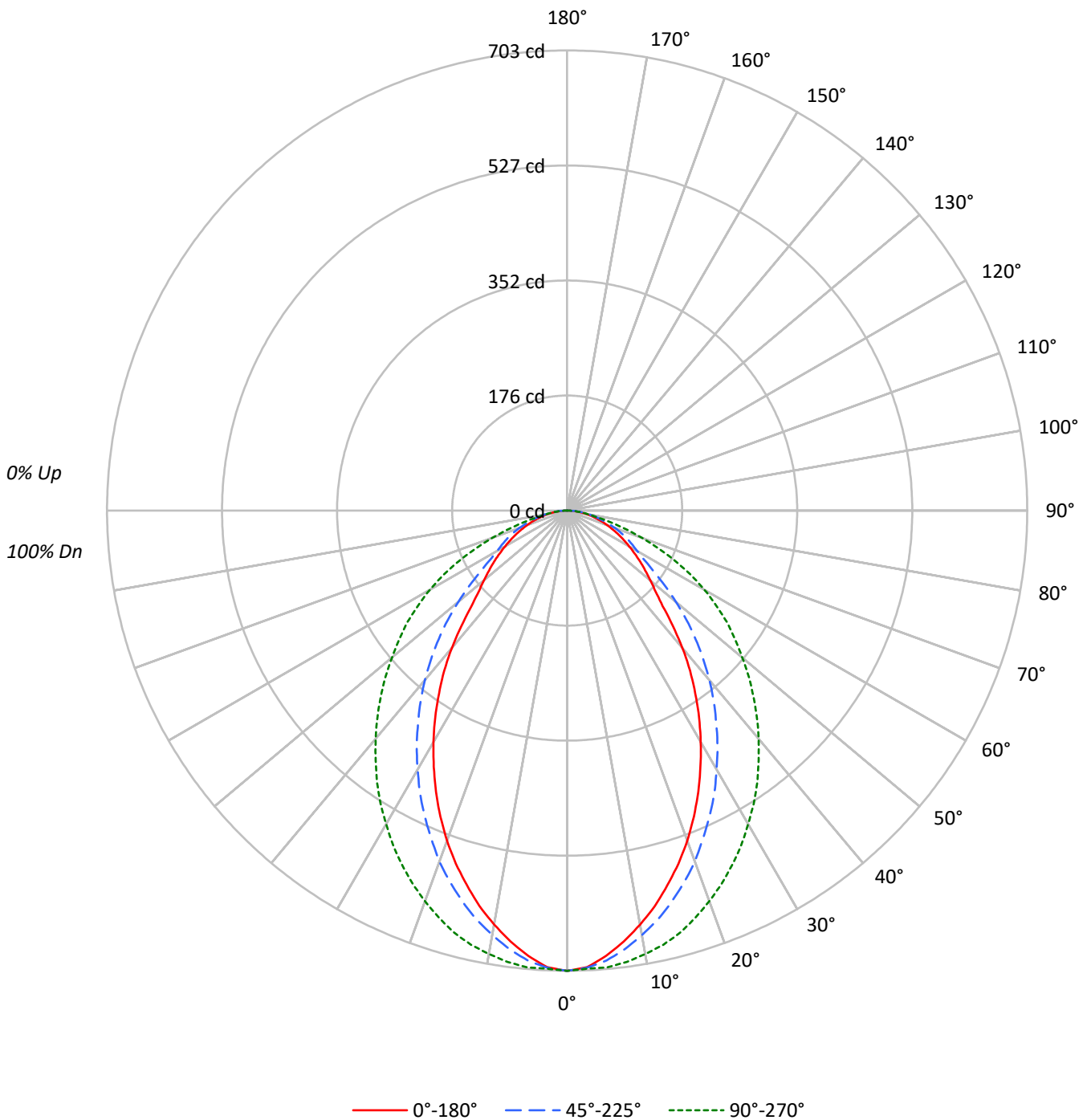
Lumens per Lamp: N/A
Luminaire Lumens: 1318.3 lumens
Efficiency: N/A
Efficacy: 67.3 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 19.6
Input Voltage (V): 120
Input Current (A_{in}): 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	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	74	69	77	72	68	74	70	66	64													64															
4	86	75	67	61	84	74	67	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	48	59	52	47	58	52	47	56	51	46	44													44															
7	69	57	49	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40													40															
8	65	52	44	39	63	52	44	39	50	43	38	49	43	38	48	42	38	36													36															
9	61	48	41	35	59	48	40	35	47	40	35	46	39	35	45	39	35	33													33															
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	30													30															

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4842	4842	4842
5°	4720	4768	4841
10°	4489	4602	4809
15°	4221	4407	4757
20°	3932	4180	4653
25°	3603	3912	4536
30°	3245	3630	4396
35°	2870	3336	4257
40°	2463	3037	4091
45°	2011	2702	3919
50°	1783	2318	3740
55°	1636	1923	3584
60°	1509	1702	3338
65°	1408	1637	2977
70°	1315	1556	2432
75°	1216	1458	1793
80°	1142	1364	1308
85°	1051	1335	1114

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 3919 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.1	4.9
10°-20°	175.3	13.3
20°-30°	240.9	18.3
30°-40°	255.3	19.4
40°-50°	222.9	16.9
50°-60°	169.3	12.8
60°-70°	113.5	8.6
70°-80°	58.5	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°	481.3	36.5
0°-40°	736.6	55.9
0°-60°	1128.8	85.6
0°-90°	1318.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1318.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	703	703	703	703	703	
5°	683	690	690	695	700	64
15°	592	604	618	646	667	166
25°	474	489	515	558	597	217
35°	341	361	397	453	506	213
45°	206	227	278	344	402	163
55°	136	140	160	235	299	122
65°	86	88	100	134	183	86
75°	46	48	55	58	67	49
85°	13	17	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°	703.2	703.2	703.2	703.2	703.2
2.5°	698.3	703.2	699.0	699.0	700.4
5°	682.9	689.9	689.9	694.8	700.4
7.5°	663.9	671.6	675.8	687.1	695.5
10°	642.1	650.5	658.3	675.1	687.8
12.5°	618.9	628.1	640.0	661.8	679.3
15°	592.2	603.5	618.2	645.6	667.4
17.5°	565.5	576.8	595.0	627.4	651.9
20°	536.7	548.7	570.5	605.6	635.1
22.5°	505.8	519.2	542.4	582.4	616.8
25°	474.2	489.0	515.0	557.8	597.1
27.5°	441.2	458.8	486.9	532.5	576.1
30°	408.2	425.7	456.6	506.5	552.9
32.5°	375.2	394.1	427.8	480.5	530.4
35°	341.4	361.1	396.9	453.1	506.5
37.5°	308.4	328.1	368.1	426.4	480.5
40°	274.0	294.4	337.9	399.0	455.2
42.5°	238.9	260.6	307.7	370.9	429.2
45°	206.5	226.9	277.5	343.5	402.5
47.5°	182.7	196.0	247.3	315.4	376.6
50°	166.5	173.5	216.4	288.0	349.2
52.5°	150.3	156.0	187.6	259.9	323.2
55°	136.3	140.5	160.2	235.3	298.6
57.5°	122.2	126.5	139.1	210.8	269.8
60°	109.6	113.1	123.6	184.8	242.4
62.5°	97.7	100.5	111.7	160.2	212.9
65°	86.4	88.5	100.5	134.2	182.7
67.5°	75.2	77.3	89.2	109.6	150.3
70°	65.3	66.0	77.3	89.2	120.8
72.5°	55.5	56.2	65.3	72.4	92.7
75°	45.7	48.5	54.8	58.3	67.4
77.5°	37.2	40.7	44.3	45.7	45.7
80°	28.8	33.0	34.4	34.4	33.0
82.5°	21.1	24.6	25.3	23.9	22.5
85°	13.3	16.9	16.9	15.5	14.1
87.5°	6.3	9.1	9.1	8.4	6.3
90°	0.0	0.0	0.0	0.0	0.0



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	12.09	13.59	12.45	13.90	14.21	16.02	17.51	16.38	17.83	18.14
	3H	13.66	15.00	14.04	15.33	15.69	17.44	18.78	17.81	19.11	19.47
	4H	14.27	15.53	14.67	15.88	16.26	17.85	19.11	18.25	19.46	19.84
	6H	14.77	15.93	15.18	16.30	16.69	18.07	19.23	18.48	19.60	19.99
	8H	14.94	16.05	15.37	16.44	16.84	18.13	19.23	18.55	19.62	20.02
	12H	15.06	16.12	15.49	16.50	16.93	18.16	19.22	18.59	19.60	20.03
4H	2H	12.83	14.08	13.23	14.43	14.81	16.14	17.40	16.54	17.75	18.13
	3H	14.60	15.65	15.01	16.05	16.45	17.75	18.80	18.16	19.20	19.60
	4H	15.34	16.28	15.77	16.70	17.14	18.28	19.22	18.71	19.63	20.07
	6H	15.97	16.79	16.43	17.24	17.70	18.62	19.44	19.08	19.88	20.34
	8H	16.20	16.97	16.67	17.41	17.88	18.72	19.48	19.18	19.93	20.40
	12H	16.38	17.06	16.86	17.54	18.01	18.79	19.48	19.28	19.95	20.43
8H	4H	15.74	16.50	16.20	16.95	17.42	18.38	19.15	18.85	19.59	20.06
	6H	16.53	17.16	17.02	17.65	18.13	18.82	19.45	19.32	19.95	20.42
	8H	16.85	17.42	17.36	17.93	18.42	18.98	19.55	19.50	20.06	20.55
	12H	17.12	17.63	17.63	18.12	18.68	19.12	19.62	19.63	20.11	20.68
12H	4H	15.78	16.47	16.27	16.95	17.42	18.38	19.07	18.87	19.55	20.02
	6H	16.61	17.18	17.12	17.69	18.17	18.84	19.41	19.35	19.92	20.41
	8H	17.00	17.51	17.51	18.00	18.56	19.05	19.55	19.56	20.04	20.61