

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



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: P1061975

Luminaire Tested: S125RDR-H1270D935-X4F0-XX-UDD-BVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061975
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-87)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-H1270D935-X4F0-XX-UDD-BVL-S
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE
LOUVER WITH DIFFUSER
HIGH PERFORMANCE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

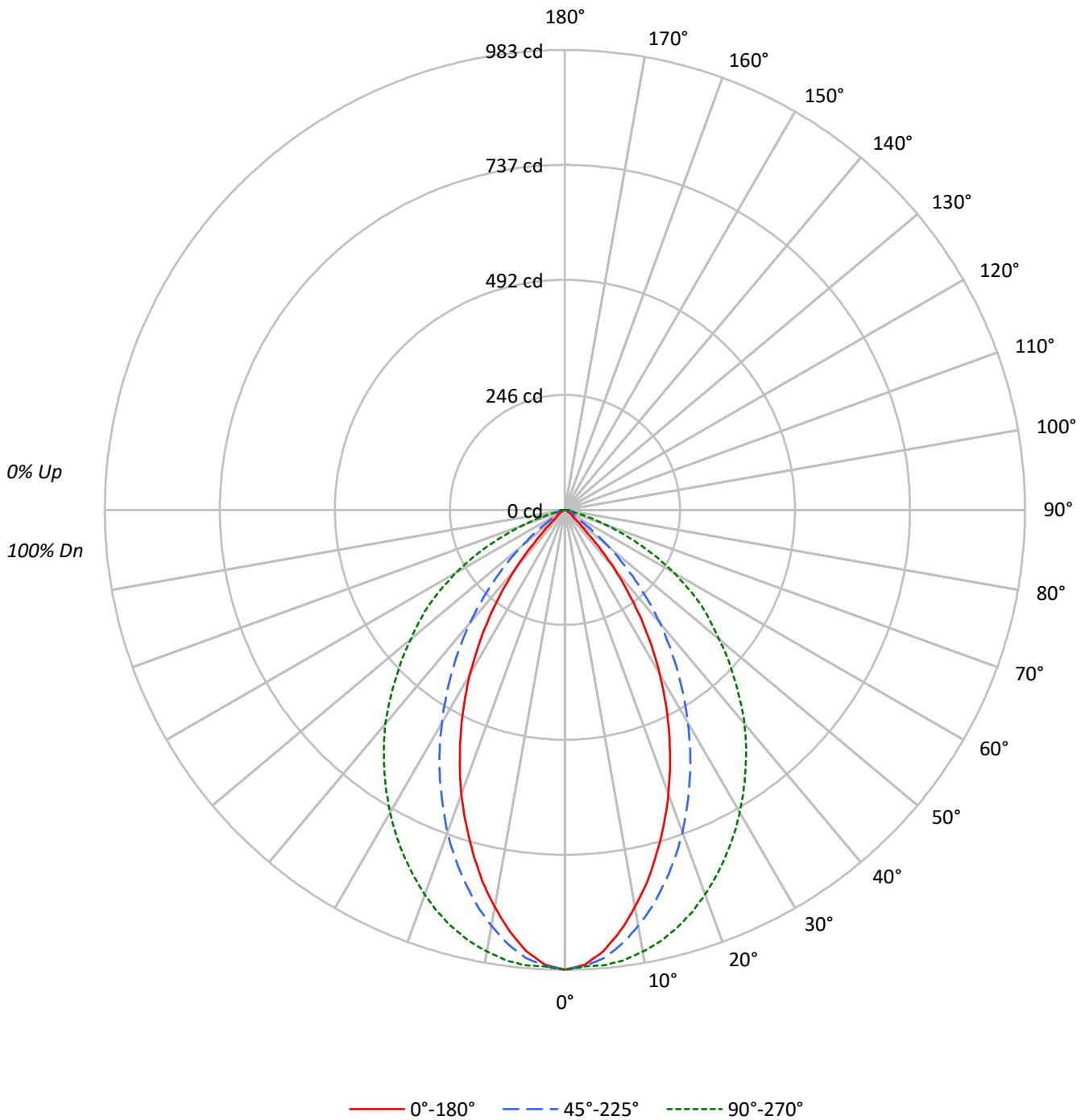
Lumens per Lamp: N/A
Luminaire Lumens: 1264.3 lumens
Efficiency: N/A
Efficacy: 34.6 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.14 / 0.98
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 36.5
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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54
7	75	64	57	52	74	63	56	52	62	56	51	61	55	51	59	54	51	49
8	71	60	52	47	69	59	52	47	58	52	47	57	51	47	55	50	47	45
9	67	55	48	44	66	55	48	44	54	48	44	53	47	43	52	47	43	42
10	63	52	45	41	62	51	45	40	50	44	40	50	44	40	49	44	40	39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6768	6768	6768
5°	6542	6643	6752
10°	6026	6313	6703
15°	5410	5876	6592
20°	4736	5375	6413
25°	4001	4801	6189
30°	3224	4177	5938
35°	2371	3520	5658
40°	1479	2839	5364
45°	554	2075	4986
50°	259	1297	4603
55°	188	538	4258
60°	134	284	3684
65°	78	336	2920
70°	72	391	1852
75°	96	386	580
80°	143	480	432
85°	284	766	577

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4986 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.1	7.1
10°-20°	233.3	18.5
20°-30°	297.3	23.5
30°-40°	276.7	21.9
40°-50°	189.6	15.0
50°-60°	104.4	8.3
60°-70°	49.4	3.9
70°-80°	15.5	1.2
80°-90°	8.0	0.6
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°	620.7	49.1
0°-40°	897.4	71.0
0°-60°	1191.4	94.2
0°-90°	1264.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1264.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	983	983	983	983	983	
5°	947	959	961	968	977	88
15°	759	783	824	886	925	212
25°	527	559	632	734	815	240
35°	282	322	419	557	673	175
45°	57	96	213	378	512	54
55°	16	18	45	211	355	14
65°	5	6	21	78	179	6
75°	4	6	14	16	22	4
85°	4	8	10	8	7	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	982.9	982.9	982.9	982.9	982.9
2.5°	973.3	982.9	975.7	975.7	976.9
5°	946.6	958.7	961.2	968.4	976.9
7.5°	907.9	923.6	935.7	956.3	970.8
10°	861.9	881.3	903.0	936.9	958.7
12.5°	813.5	834.1	866.7	913.9	944.2
15°	759.0	783.2	824.4	886.1	924.8
17.5°	703.3	729.9	780.8	853.4	901.8
20°	646.4	674.3	733.6	814.7	875.2
22.5°	587.1	617.4	682.7	774.7	846.2
25°	526.6	559.3	631.9	733.6	814.7
27.5°	466.1	499.9	579.8	691.2	782.0
30°	405.5	440.6	525.4	647.6	746.9
32.5°	343.8	382.5	472.1	604.1	710.6
35°	282.1	322.0	418.8	556.8	673.1
37.5°	221.5	262.7	366.8	512.1	635.5
40°	164.6	205.8	315.9	467.3	596.8
42.5°	106.5	150.1	262.7	421.3	554.4
45°	56.9	95.6	213.1	377.7	512.1
47.5°	30.3	50.8	165.8	334.1	472.1
50°	24.2	27.8	121.1	290.5	429.7
52.5°	19.4	21.8	77.5	245.7	392.2
55°	15.7	18.2	44.8	210.6	354.7
57.5°	12.1	14.5	25.4	175.5	311.1
60°	9.7	10.9	20.6	140.4	267.5
62.5°	6.1	8.5	20.6	108.9	223.9
65°	4.8	6.1	20.6	77.5	179.2
67.5°	4.8	4.8	20.6	50.8	134.4
70°	3.6	3.6	19.4	32.7	92.0
72.5°	3.6	3.6	16.9	21.8	53.3
75°	3.6	6.1	14.5	15.7	21.8
77.5°	3.6	9.7	13.3	13.3	12.1
80°	3.6	9.7	12.1	10.9	10.9
82.5°	3.6	9.7	9.7	9.7	8.5
85°	3.6	8.5	9.7	8.5	7.3
87.5°	3.6	8.5	8.5	8.5	4.8
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	0.00	0.00	0.00	0.00	0.00	15.69	16.97	16.05	17.29	17.60
	3H	0.00	0.00	0.00	0.00	0.00	16.48	17.61	16.86	17.94	18.31
	4H	0.00	0.00	0.00	0.00	0.00	16.50	17.56	16.90	17.91	18.29
	6H	0.00	0.33	0.00	0.70	1.09	16.46	17.43	16.87	17.80	18.19
	8H	0.03	0.95	0.46	1.34	1.75	16.43	17.35	16.87	17.74	18.15
	12H	0.78	1.65	1.21	2.04	2.47	16.42	17.29	16.85	17.68	18.11
4H	2H	0.00	0.53	0.00	0.88	1.26	15.47	16.53	15.87	16.88	17.26
	3H	0.33	1.20	0.75	1.60	2.00	16.30	17.16	16.71	17.57	17.97
	4H	0.94	1.71	1.37	2.13	2.57	16.33	17.10	16.77	17.52	17.97
	6H	2.43	3.10	2.90	3.54	4.01	16.32	16.99	16.78	17.43	17.90
	8H	3.17	3.79	3.64	4.24	4.71	16.30	16.92	16.77	17.37	17.84
	12H	3.91	4.46	4.40	4.94	5.41	16.31	16.85	16.79	17.34	17.81
8H	4H	2.98	3.60	3.45	4.04	4.51	16.22	16.84	16.69	17.29	17.76
	6H	4.72	5.23	5.23	5.73	6.21	16.22	16.73	16.72	17.22	17.71
	8H	5.68	6.13	6.20	6.65	7.14	16.23	16.68	16.75	17.20	17.69
	12H	6.61	7.01	7.13	7.51	8.08	16.27	16.67	16.79	17.17	17.74
12H	4H	3.28	3.82	3.77	4.31	4.78	16.18	16.72	16.66	17.21	17.68
	6H	5.18	5.64	5.71	6.15	6.65	16.18	16.63	16.70	17.15	17.64
	8H	6.32	6.72	6.83	7.21	7.78	16.22	16.62	16.73	17.11	17.68