

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: P1062134

Luminaire Tested: S125RDR-H610D930-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1062134
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: S125RDR-H610D930-X4F0-XX-UDD-WVL-S
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE
LOUVER WITH DIFFUSER
HIGH PERFORMANCE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

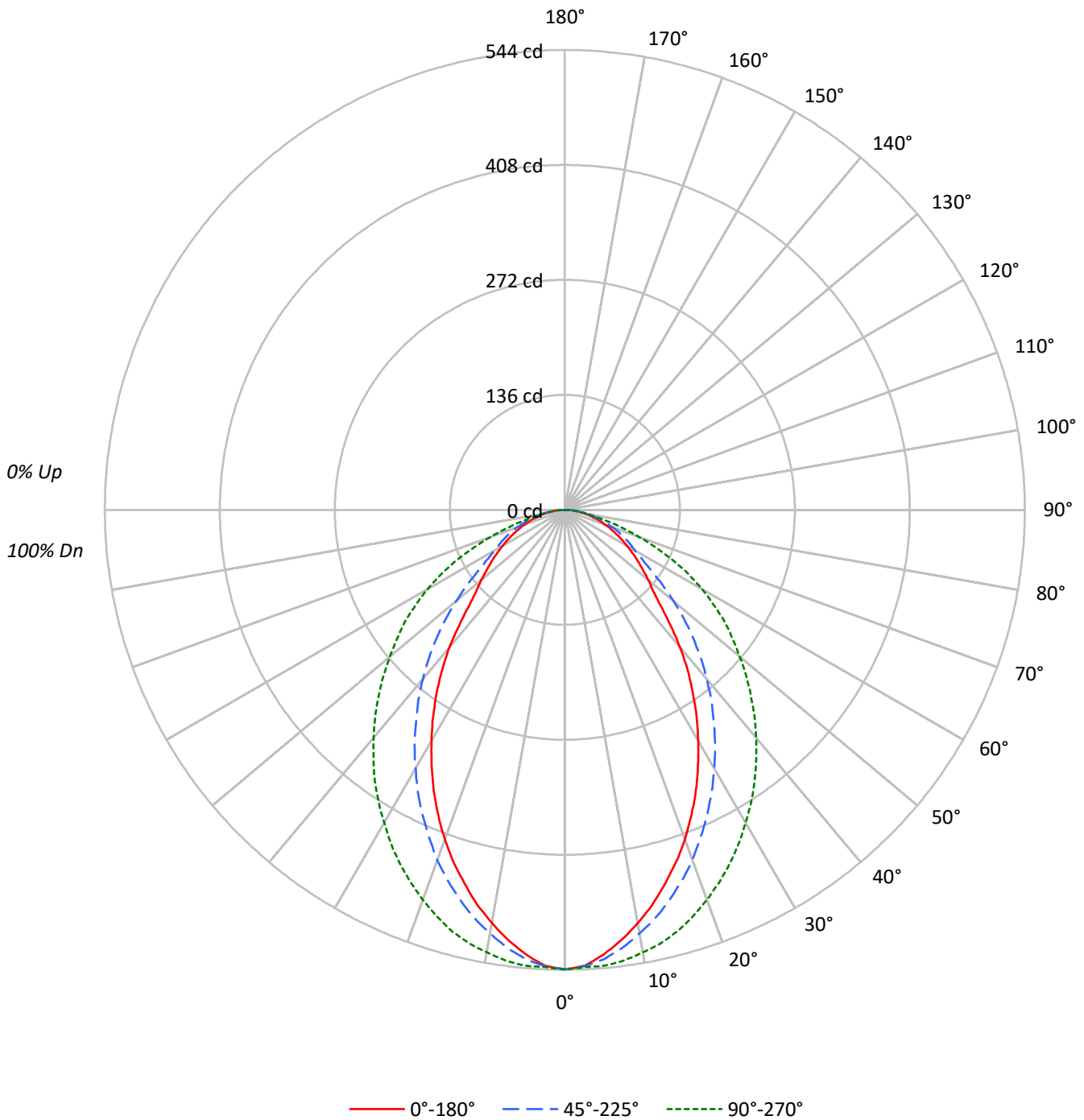
Lumens per Lamp: N/A
Luminaire Lumens: 1019.1 lumens
Efficiency: N/A
Efficacy: 58.6 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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: P1062134

CATALOG NUMBER: S125RDR-H610D930-X4F0-XX-UDD-WVL-S

Luminous Intensity Polar Plot





TEST NUMBER: P1062134

CATALOG NUMBER: S125RDR-H610D930-X4F0-XX-UDD-WVL-S

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	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°	3743	3743	3743
5°	3649	3686	3742
10°	3471	3558	3717
15°	3263	3407	3677
20°	3040	3231	3597
25°	2785	3024	3507
30°	2508	2806	3398
35°	2218	2579	3292
40°	1904	2348	3163
45°	1555	2089	3030
50°	1379	1792	2891
55°	1265	1486	2771
60°	1166	1316	2581
65°	1088	1266	2300
70°	1017	1202	1880
75°	939	1128	1386
80°	884	1055	1011
85°	814	1027	861

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 3030 cd/sqm

TEST NUMBER: P1062134

CATALOG NUMBER: S125RDR-H610D930-X4F0-XX-UDD-WVL-S

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.3	4.9
10°-20°	135.5	13.3
20°-30°	186.2	18.3
30°-40°	197.4	19.4
40°-50°	172.3	16.9
50°-60°	130.9	12.8
60°-70°	87.7	8.6
70°-80°	45.2	4.4
80°-90°	13.6	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°	372.0	36.5
0°-40°	569.4	55.9
0°-60°	872.6	85.6
0°-90°	1019.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1019.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	544	544	544	544	544	
5°	528	533	533	537	541	49
15°	458	466	478	499	516	128
25°	367	378	398	431	462	168
35°	264	279	307	350	392	165
45°	160	175	214	266	311	126
55°	105	109	124	182	231	94
65°	67	68	78	104	141	66
75°	35	38	42	45	52	38
85°	10	13	13	12	11	12
90°	0	0	0	0	0	

TEST NUMBER: P1062134

CATALOG NUMBER: S125RDR-H610D930-X4F0-XX-UDD-WVL-S

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	543.6	543.6	543.6	543.6	543.6
2.5°	539.8	543.6	540.4	540.4	541.4
5°	527.9	533.3	533.3	537.1	541.4
7.5°	513.2	519.2	522.4	531.1	537.6
10°	496.4	502.9	508.9	521.9	531.7
12.5°	478.4	485.5	494.7	511.6	525.1
15°	457.8	466.5	477.9	499.1	515.9
17.5°	437.2	445.9	460.0	485.0	504.0
20°	414.9	424.1	441.0	468.1	490.9
22.5°	391.0	401.3	419.2	450.2	476.8
25°	366.6	378.0	398.1	431.2	461.6
27.5°	341.0	354.6	376.3	411.6	445.3
30°	315.5	329.1	353.0	391.6	427.4
32.5°	290.0	304.7	330.7	371.5	410.0
35°	263.9	279.1	306.8	350.3	391.6
37.5°	238.4	253.6	284.6	329.6	371.5
40°	211.8	227.5	261.2	308.5	351.9
42.5°	184.6	201.5	237.9	286.7	331.8
45°	159.7	175.4	214.5	265.6	311.2
47.5°	141.2	151.5	191.2	243.8	291.1
50°	128.7	134.1	167.3	222.7	269.9
52.5°	116.2	120.6	145.0	200.9	249.8
55°	105.4	108.6	123.8	181.9	230.8
57.5°	94.5	97.8	107.5	162.9	208.5
60°	84.7	87.4	95.6	142.8	187.4
62.5°	75.5	77.7	86.3	123.8	164.5
65°	66.8	68.4	77.7	103.7	141.2
67.5°	58.1	59.7	69.0	84.7	116.2
70°	50.5	51.0	59.7	69.0	93.4
72.5°	42.9	43.4	50.5	55.9	71.7
75°	35.3	37.5	42.4	45.1	52.1
77.5°	28.8	31.5	34.2	35.3	35.3
80°	22.3	25.5	26.6	26.6	25.5
82.5°	16.3	19.0	19.6	18.5	17.4
85°	10.3	13.0	13.0	11.9	10.9
87.5°	4.9	7.1	7.1	6.5	4.9
90°	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P1062134
 CATALOG NUMBER: S125RDR-H610D930-X4F0-XX-UDD-WVL-S

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	11.20	12.69	11.56	13.01	13.32	15.12	16.62	15.48	16.93	17.24
	3H	12.76	14.11	13.14	14.43	14.80	16.54	17.88	16.92	18.21	18.57
	4H	13.38	14.64	13.78	14.99	15.36	16.96	18.21	17.36	18.56	18.94
	6H	13.87	15.04	14.29	15.40	15.79	17.17	18.34	17.59	18.70	19.09
	8H	14.05	15.15	14.47	15.54	15.95	17.23	18.34	17.66	18.73	19.13
	12H	14.17	15.23	14.60	15.61	16.04	17.27	18.33	17.70	18.71	19.14
4H	2H	11.93	13.19	12.33	13.54	13.92	15.25	16.50	15.65	16.85	17.23
	3H	13.71	14.75	14.12	15.15	15.55	16.86	17.90	17.27	18.30	18.70
	4H	14.44	15.39	14.88	15.80	16.24	17.38	18.32	17.82	18.74	19.18
	6H	15.08	15.90	15.54	16.34	16.80	17.72	18.54	18.18	18.99	19.45
	8H	15.31	16.07	15.77	16.52	16.99	17.82	18.59	18.29	19.03	19.50
	12H	15.48	16.17	15.96	16.64	17.12	17.90	18.58	18.38	19.06	19.53
8H	4H	14.84	15.61	15.31	16.05	16.52	17.49	18.25	17.95	18.70	19.17
	6H	15.63	16.26	16.13	16.75	17.23	17.93	18.56	18.43	19.05	19.53
	8H	15.96	16.52	16.47	17.03	17.52	18.09	18.65	18.60	19.16	19.65
	12H	16.23	16.73	16.74	17.22	17.79	18.22	18.72	18.73	19.22	19.78
12H	4H	14.89	15.57	15.37	16.05	16.52	17.49	18.17	17.97	18.65	19.12
	6H	15.71	16.28	16.23	16.79	17.28	17.94	18.51	18.46	19.02	19.51
	8H	16.11	16.61	16.62	17.10	17.67	18.15	18.65	18.66	19.15	19.71