

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: P1061723

Luminaire Tested: S125RDRP-S610D930-X4F0-XX-UDD-BVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061723
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: S125RDRP-S610D930-X4F0-XX-UDD-BVL-S
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

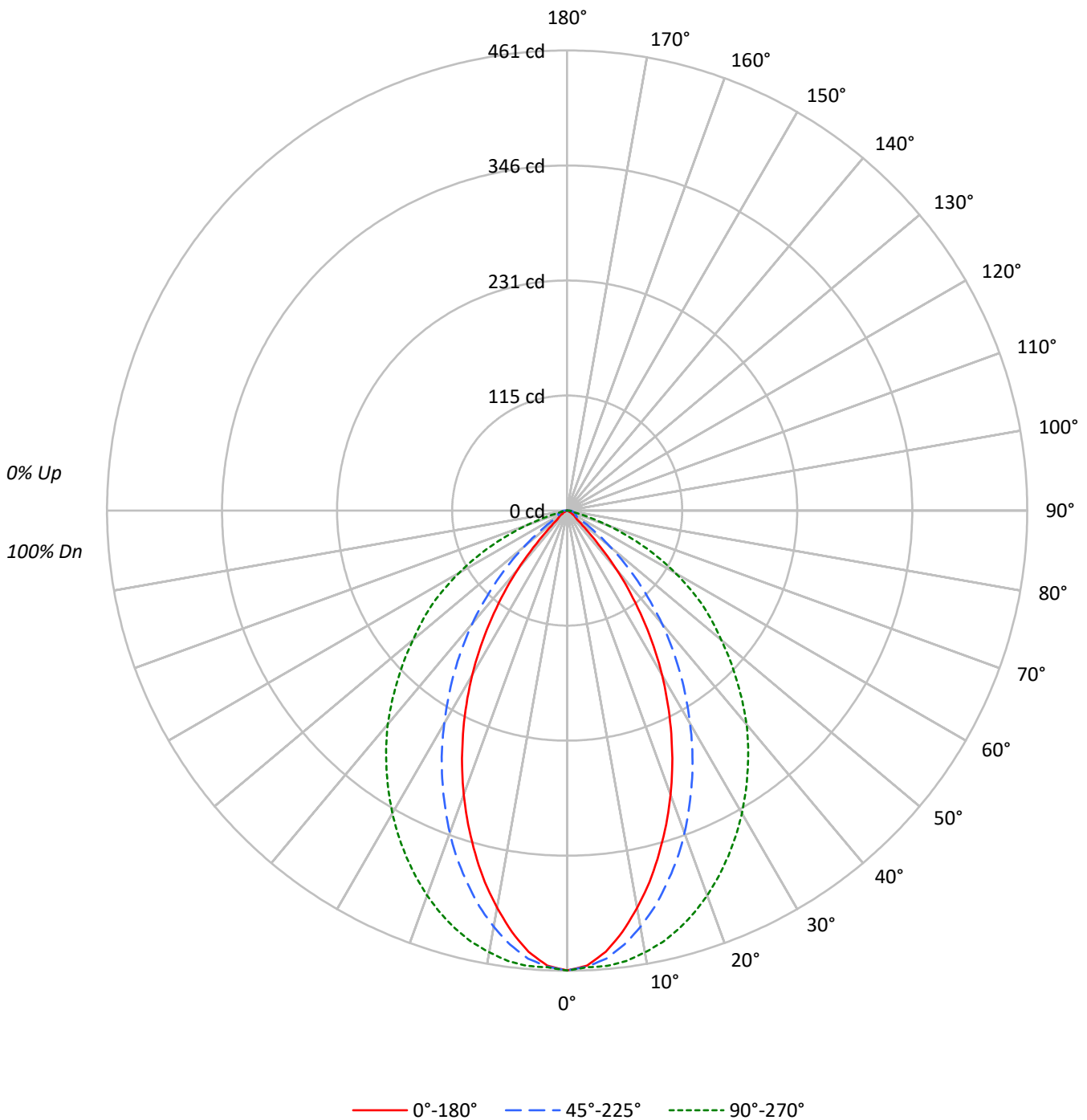
Lumens per Lamp: N/A
Luminaire Lumens: 592.6 lumens
Efficiency: N/A
Efficacy: 30.2 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.14 / 0.98
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90					90			
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81					81			
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72					72			
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65					65			
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59					59			
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54					54			
7	75	64	57	52	74	63	56	52	62	56	51	61	55	51	59	54	51	49					49			
8	71	60	52	47	69	59	52	47	58	52	47	57	51	47	55	50	47	45					45			
9	67	55	48	44	66	55	48	44	54	48	44	53	47	43	52	47	43	42					42			
10	63	52	45	41	62	51	45	40	50	44	40	50	44	40	49	44	40	39					39			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3172	3172	3172
5°	3067	3114	3165
10°	2825	2959	3142
15°	2536	2754	3090
20°	2220	2519	3006
25°	1875	2250	2901
30°	1511	1958	2783
35°	1111	1650	2652
40°	694	1331	2514
45°	260	973	2337
50°	121	607	2157
55°	89	252	1995
60°	62	132	1727
65°	37	156	1369
70°	34	183	868
75°	45	181	271
80°	67	226	202
85°	134	355	269

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 2337 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.2	7.1
10°-20°	109.4	18.5
20°-30°	139.3	23.5
30°-40°	129.7	21.9
40°-50°	88.9	15.0
50°-60°	48.9	8.3
60°-70°	23.2	3.9
70°-80°	7.3	1.2
80°-90°	3.7	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°	290.9	49.1
0°-40°	420.6	71.0
0°-60°	558.4	94.2
0°-90°	592.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	592.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	461	461	461	461	461	
5°	444	449	450	454	458	41
15°	356	367	386	415	434	99
25°	247	262	296	344	382	113
35°	132	151	196	261	316	82
45°	27	45	100	177	240	25
55°	7	8	21	99	166	7
65°	2	3	10	36	84	3
75°	2	3	7	7	10	2
85°	2	4	4	4	3	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	460.7	460.7	460.7	460.7	460.7
2.5°	456.2	460.7	457.3	457.3	457.9
5°	443.7	449.4	450.5	453.9	457.9
7.5°	425.6	432.9	438.6	448.2	455.1
10°	404.0	413.1	423.3	439.2	449.4
12.5°	381.3	390.9	406.3	428.4	442.6
15°	355.8	367.1	386.4	415.3	433.5
17.5°	329.7	342.1	366.0	400.0	422.7
20°	303.0	316.0	343.8	381.9	410.2
22.5°	275.2	289.4	320.0	363.1	396.6
25°	246.8	262.1	296.2	343.8	381.9
27.5°	218.4	234.3	271.8	324.0	366.5
30°	190.1	206.5	246.3	303.6	350.1
32.5°	161.1	179.3	221.3	283.1	333.1
35°	132.2	150.9	196.3	261.0	315.5
37.5°	103.8	123.1	171.9	240.0	297.9
40°	77.2	96.5	148.1	219.0	279.7
42.5°	49.9	70.4	123.1	197.5	259.9
45°	26.7	44.8	99.9	177.0	240.0
47.5°	14.2	23.8	77.7	156.6	221.3
50°	11.3	13.1	56.7	136.2	201.4
52.5°	9.1	10.2	36.3	115.2	183.8
55°	7.4	8.5	21.0	98.7	166.2
57.5°	5.7	6.8	11.9	82.3	145.8
60°	4.5	5.1	9.6	65.8	125.4
62.5°	2.8	4.0	9.6	51.1	105.0
65°	2.3	2.8	9.6	36.3	84.0
67.5°	2.3	2.3	9.6	23.8	63.0
70°	1.7	1.7	9.1	15.3	43.1
72.5°	1.7	1.7	7.9	10.2	25.0
75°	1.7	2.8	6.8	7.4	10.2
77.5°	1.7	4.5	6.2	6.2	5.7
80°	1.7	4.5	5.7	5.1	5.1
82.5°	1.7	4.5	4.5	4.5	4.0
85°	1.7	4.0	4.5	4.0	3.4
87.5°	1.7	4.0	4.0	4.0	2.3
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	0.00	0.00	0.00	0.00	0.00	13.06	14.34	13.42	14.66	14.97
	3H	0.00	0.00	0.00	0.00	0.00	13.84	14.98	14.22	15.31	15.68
	4H	0.00	0.00	0.00	0.00	0.00	13.87	14.93	14.27	15.28	15.66
	6H	0.00	0.00	0.00	0.00	0.00	13.83	14.80	14.24	15.17	15.56
	8H	0.00	0.00	0.00	0.00	0.00	13.80	14.72	14.23	15.11	15.52
	12H	0.00	0.00	0.00	0.00	0.00	13.78	14.66	14.22	15.05	15.48
4H	2H	0.00	0.00	0.00	0.00	0.00	12.84	13.90	13.24	14.25	14.63
	3H	0.00	0.00	0.00	0.00	0.00	13.67	14.53	14.08	14.93	15.34
	4H	0.00	0.00	0.00	0.00	0.00	13.70	14.47	14.14	14.89	15.34
	6H	0.00	0.44	0.24	0.88	1.35	13.69	14.35	14.15	14.80	15.27
	8H	0.51	1.13	0.98	1.58	2.05	13.67	14.29	14.14	14.74	15.21
	12H	1.26	1.81	1.75	2.29	2.77	13.67	14.22	14.16	14.70	15.18
8H	4H	0.33	0.95	0.80	1.39	1.87	13.59	14.21	14.06	14.65	15.13
	6H	2.06	2.57	2.57	3.07	3.55	13.59	14.09	14.09	14.59	15.07
	8H	3.01	3.47	3.53	3.98	4.47	13.59	14.05	14.12	14.56	15.06
	12H	3.96	4.36	4.47	4.85	5.42	13.64	14.04	14.16	14.54	15.11
12H	4H	0.63	1.18	1.12	1.66	2.13	13.55	14.09	14.03	14.58	15.05
	6H	2.52	2.98	3.05	3.49	3.99	13.54	14.00	14.07	14.51	15.01
	8H	3.65	4.05	4.17	4.55	5.12	13.58	13.98	14.10	14.48	15.05