

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: P1061747

Luminaire Tested: S125RDRP-S610D940-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061747
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-S610D940-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, 90 CRI LEDS
Ballast/Driver: -

Summary

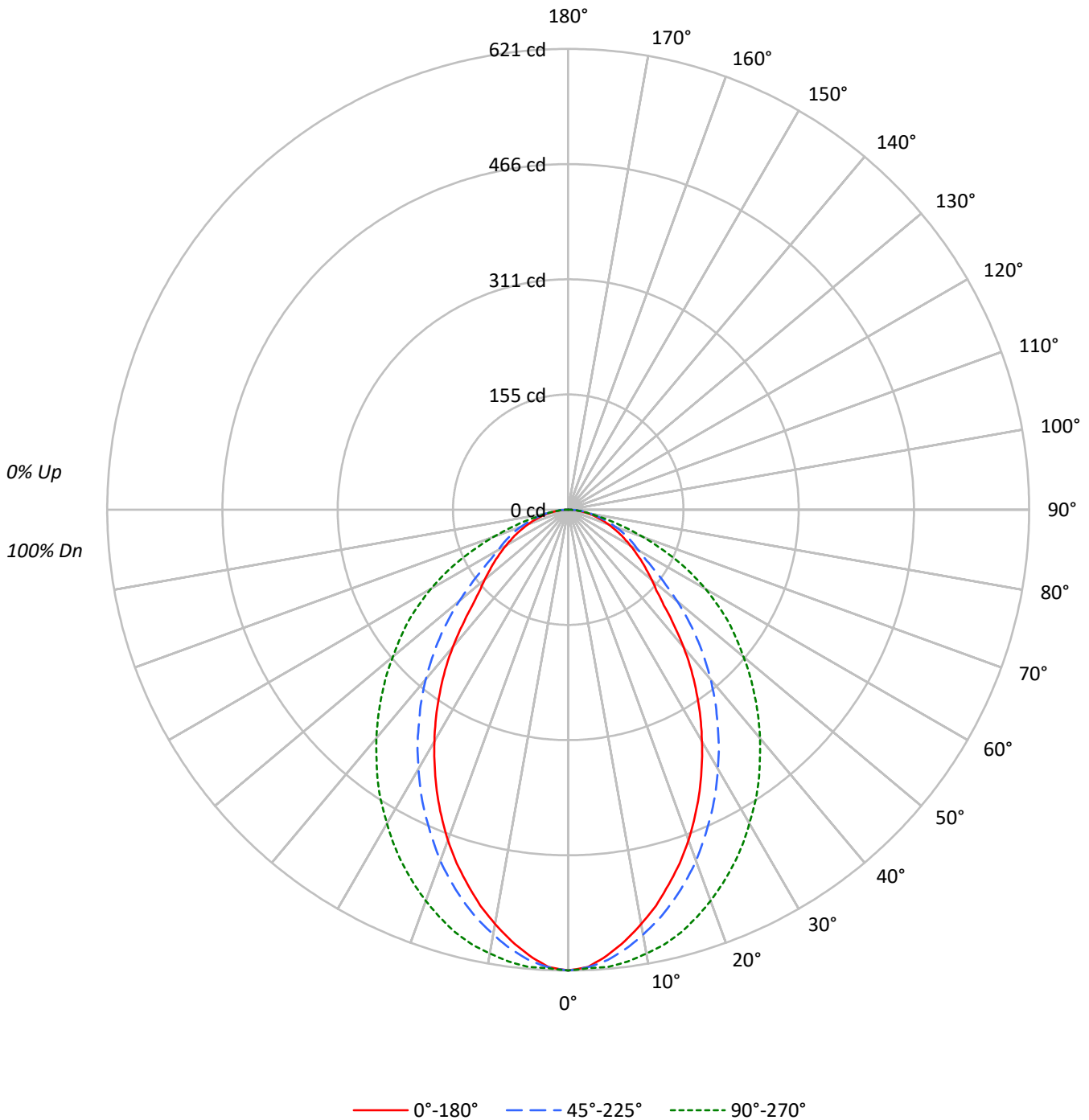
Lumens per Lamp: N/A
Luminaire Lumens: 1164.1 lumens
Efficiency: N/A
Efficacy: 59.4 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76	74
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58	56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	62	54	48	72	61	53	48	59	52	47	58	52	47	56	51	46	44
7	69	57	49	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40
8	65	52	44	39	63	52	44	39	50	43	38	49	43	38	48	42	38	36
9	61	48	41	35	59	48	40	35	47	40	35	46	39	35	45	39	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4276	4276	4276
5°	4168	4211	4275
10°	3964	4064	4246
15°	3727	3891	4201
20°	3472	3691	4109
25°	3181	3454	4006
30°	2865	3206	3881
35°	2534	2946	3760
40°	2174	2682	3613
45°	1776	2386	3462
50°	1575	2047	3302
55°	1444	1697	3164
60°	1333	1504	2947
65°	1243	1445	2628
70°	1162	1373	2148
75°	1072	1288	1586
80°	1007	1205	1158
85°	932	1177	980

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 3462 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.5	4.9
10°-20°	154.8	13.3
20°-30°	212.7	18.3
30°-40°	225.5	19.4
40°-50°	196.8	16.9
50°-60°	149.5	12.8
60°-70°	100.2	8.6
70°-80°	51.7	4.4
80°-90°	15.5	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°	425.0	36.5
0°-40°	650.4	55.9
0°-60°	996.8	85.6
0°-90°	1164.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1164.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	621	621	621	621	621	
5°	603	609	609	614	618	56
15°	523	533	546	570	589	147
25°	419	432	455	492	527	192
35°	302	319	350	400	447	188
45°	182	200	245	303	356	144
55°	120	124	141	208	264	108
65°	76	78	89	118	161	76
75°	40	43	48	52	60	43
85°	12	15	15	14	12	13
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	621.0	621.0	621.0	621.0	621.0
2.5°	616.6	621.0	617.2	617.2	618.5
5°	603.0	609.2	609.2	613.5	618.5
7.5°	586.2	593.0	596.8	606.7	614.1
10°	567.0	574.4	581.3	596.1	607.3
12.5°	546.5	554.6	565.1	584.4	599.9
15°	522.9	532.9	545.9	570.1	589.3
17.5°	499.4	509.3	525.4	554.0	575.7
20°	473.9	484.5	503.7	534.7	560.8
22.5°	446.6	458.4	478.9	514.3	544.7
25°	418.7	431.8	454.7	492.5	527.3
27.5°	389.6	405.1	429.9	470.2	508.7
30°	360.4	375.9	403.2	447.3	488.2
32.5°	331.3	348.0	377.8	424.3	468.4
35°	301.5	318.9	350.5	400.1	447.3
37.5°	272.3	289.7	325.1	376.5	424.3
40°	241.9	259.9	298.4	352.3	402.0
42.5°	210.9	230.1	271.7	327.5	379.0
45°	182.4	200.4	245.0	303.3	355.5
47.5°	161.3	173.1	218.4	278.5	332.5
50°	147.0	153.2	191.1	254.3	308.3
52.5°	132.8	137.7	165.6	229.5	285.4
55°	120.3	124.1	141.4	207.8	263.6
57.5°	107.9	111.7	122.8	186.1	238.2
60°	96.8	99.9	109.2	163.1	214.0
62.5°	86.2	88.7	98.6	141.4	188.0
65°	76.3	78.2	88.7	118.5	161.3
67.5°	66.4	68.2	78.8	96.8	132.8
70°	57.7	58.3	68.2	78.8	106.7
72.5°	49.0	49.6	57.7	63.9	81.9
75°	40.3	42.8	48.4	51.5	59.6
77.5°	32.9	36.0	39.1	40.3	40.3
80°	25.4	29.2	30.4	30.4	29.2
82.5°	18.6	21.7	22.3	21.1	19.9
85°	11.8	14.9	14.9	13.6	12.4
87.5°	5.6	8.1	8.1	7.4	5.6
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	11.66	13.15	12.02	13.47	13.78	15.58	17.08	15.95	17.39	17.71
	3H	13.23	14.57	13.61	14.90	15.26	17.00	18.35	17.38	18.68	19.04
	4H	13.84	15.10	14.24	15.45	15.83	17.42	18.68	17.82	19.03	19.41
	6H	14.33	15.50	14.75	15.86	16.26	17.64	18.80	18.05	19.17	19.56
	8H	14.51	15.62	14.94	16.00	16.41	17.70	18.80	18.12	19.19	19.59
	12H	14.63	15.69	15.06	16.07	16.50	17.73	18.79	18.16	19.17	19.60
4H	2H	12.39	13.65	12.79	14.00	14.38	15.71	16.97	16.11	17.32	17.70
	3H	14.17	15.22	14.58	15.62	16.02	17.32	18.36	17.73	18.76	19.16
	4H	14.91	15.85	15.34	16.26	16.70	17.85	18.79	18.28	19.20	19.64
	6H	15.54	16.36	16.00	16.80	17.26	18.19	19.01	18.65	19.45	19.91
	8H	15.77	16.54	16.23	16.98	17.45	18.29	19.05	18.75	19.50	19.96
	12H	15.94	16.63	16.43	17.11	17.58	18.36	19.04	18.84	19.52	19.99
8H	4H	15.31	16.07	15.77	16.52	16.98	17.95	18.72	18.42	19.16	19.63
	6H	16.09	16.73	16.59	17.22	17.70	18.39	19.02	18.89	19.51	19.99
	8H	16.42	16.98	16.93	17.49	17.98	18.55	19.12	19.06	19.63	20.12
	12H	16.69	17.19	17.20	17.69	18.25	18.69	19.19	19.20	19.68	20.24
12H	4H	15.35	16.03	15.83	16.51	16.98	17.95	18.64	18.44	19.11	19.59
	6H	16.18	16.74	16.69	17.25	17.74	18.41	18.98	18.92	19.49	19.97
	8H	16.57	17.07	17.08	17.57	18.13	18.62	19.12	19.13	19.61	20.18