

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: P1061715

Luminaire Tested: S125RDRP-S610D927-X4F0-XX-UDD-BVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061715
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-84)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-S610D927-X4F0-XX-UDD-BVL-W
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

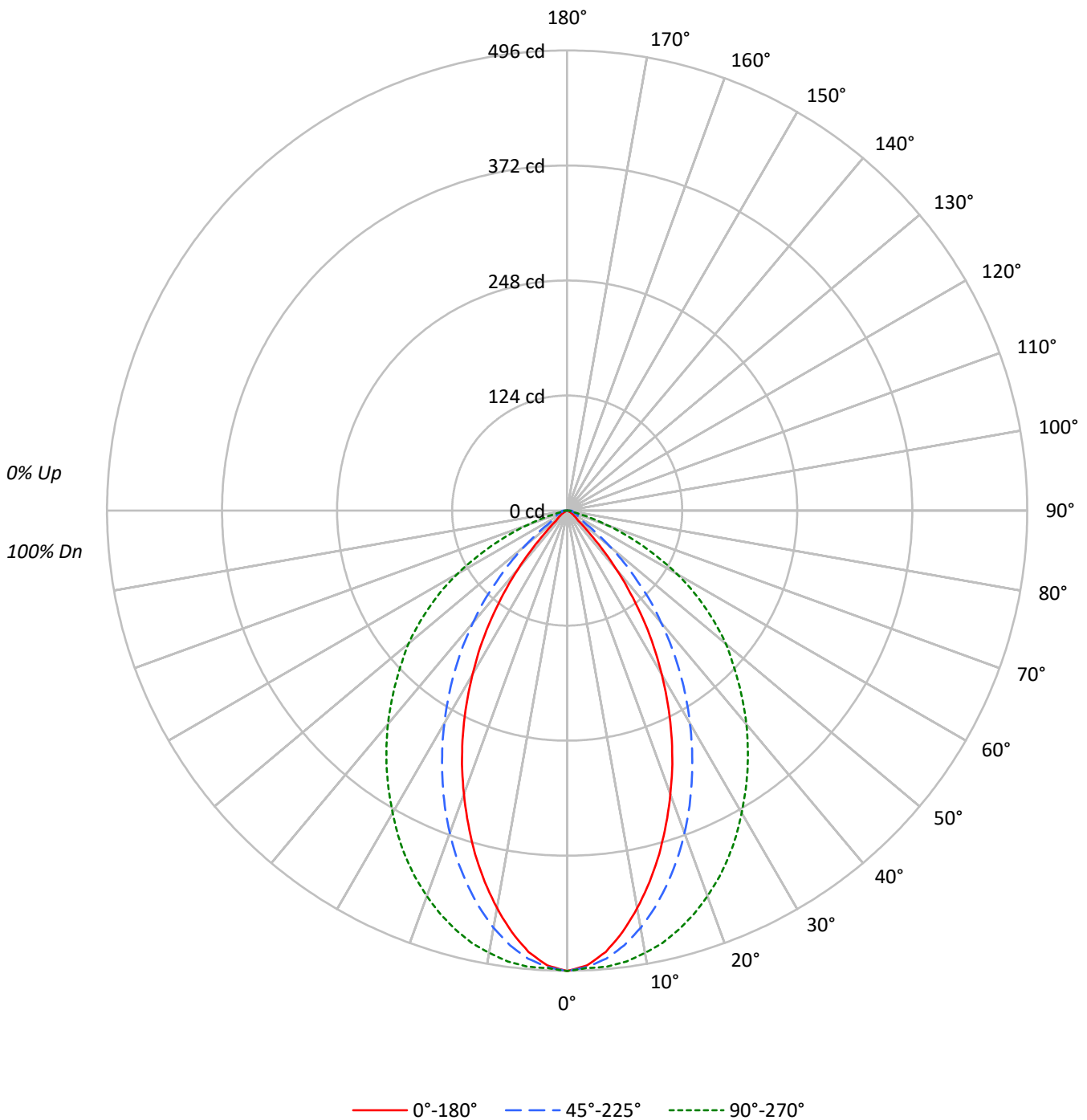
Lumens per Lamp: N/A
Luminaire Lumens: 642.1 lumens
Efficiency: N/A
Efficacy: 32.8 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.14 / 0.98
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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	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	104	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80
3	98	89	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	67	74	70	67	65
5	85	75	68	63	83	74	67	62	72	66	62	70	65	61	69	64	60	59
6	80	69	62	57	78	68	61	56	67	60	56	65	60	56	64	59	55	53
7	75	64	57	52	74	63	56	51	62	56	51	60	55	51	59	54	50	49
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	46	45
9	67	55	48	44	65	55	48	44	54	48	43	53	47	43	52	47	43	41
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	44	40	38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3417	3417	3417
5°	3300	3350	3411
10°	3042	3192	3385
15°	2731	2972	3329
20°	2384	2711	3240
25°	2019	2417	3129
30°	1622	2104	2990
35°	1200	1775	2850
40°	743	1417	2701
45°	290	1036	2539
50°	136	650	2392
55°	100	278	2172
60°	69	197	1882
65°	46	207	1465
70°	44	189	922
75°	59	192	293
80°	87	218	198
85°	134	434	308

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 2539 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.5	7.1
10°-20°	117.9	18.4
20°-30°	150.2	23.4
30°-40°	139.8	21.8
40°-50°	96.2	15.0
50°-60°	54.5	8.5
60°-70°	25.7	4.0
70°-80°	8.1	1.3
80°-90°	4.2	0.7
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°	313.6	48.8
0°-40°	453.4	70.6
0°-60°	604.1	94.1
0°-90°	642.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	642.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	496	496	496	496	496	
5°	478	484	485	489	494	44
15°	383	396	417	448	467	107
25°	266	283	318	372	412	121
35°	143	163	211	283	339	88
45°	30	47	106	192	261	28
55°	8	9	23	111	181	8
65°	3	3	13	40	90	3
75°	2	5	7	8	11	2
85°	2	4	6	5	4	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	496.3	496.3	496.3	496.3	496.3
2.5°	490.7	495.7	492.4	492.9	493.5
5°	477.5	484.1	484.7	489.1	493.5
7.5°	458.2	466.5	472.5	483.0	490.2
10°	435.1	445.0	456.6	473.6	484.1
12.5°	410.2	421.8	437.8	462.1	477.0
15°	383.2	395.9	416.9	448.3	467.0
17.5°	354.5	368.9	394.2	431.7	455.5
20°	325.3	340.8	370.0	413.0	442.2
22.5°	296.1	312.1	344.6	392.6	427.9
25°	265.8	282.9	318.2	371.6	411.9
27.5°	234.9	252.5	291.7	350.1	394.8
30°	204.0	222.8	264.7	328.1	376.1
32.5°	173.7	192.4	238.2	306.0	357.9
35°	142.8	162.7	211.2	283.4	339.1
37.5°	111.9	133.4	184.7	260.3	319.8
40°	82.7	103.1	157.7	237.7	300.5
42.5°	55.1	75.0	133.4	215.0	280.7
45°	29.8	47.4	106.4	192.4	260.8
47.5°	16.0	25.4	83.3	170.4	241.5
50°	12.7	14.3	60.7	150.0	223.3
52.5°	10.5	11.6	39.7	130.7	202.4
55°	8.3	9.4	23.2	110.8	180.9
57.5°	6.6	7.7	14.9	92.1	159.9
60°	5.0	6.1	14.3	73.9	136.7
62.5°	3.9	4.4	13.2	56.8	112.5
65°	2.8	3.3	12.7	39.7	89.9
67.5°	2.2	2.8	11.6	25.4	67.3
70°	2.2	2.2	9.4	16.5	45.8
72.5°	2.2	3.9	8.3	11.0	27.6
75°	2.2	5.0	7.2	7.7	11.0
77.5°	2.2	5.5	6.1	6.1	6.1
80°	2.2	5.0	5.5	5.5	5.0
82.5°	2.2	4.4	5.0	5.5	4.4
85°	1.7	4.4	5.5	5.0	3.9
87.5°	1.7	4.4	5.0	4.4	2.8
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	13.51	14.81	13.88	15.12	15.43
	3H	0.00	0.00	0.00	0.00	0.00	14.23	15.38	14.61	15.71	16.07
	4H	0.00	0.00	0.00	0.00	0.00	14.26	15.32	14.66	15.67	16.06
	6H	0.00	0.00	0.00	0.00	0.00	14.21	15.18	14.62	15.56	15.95
	8H	0.00	0.00	0.00	0.00	0.21	14.19	15.11	14.62	15.50	15.91
	12H	0.00	0.00	0.00	0.36	0.79	14.17	15.05	14.60	15.43	15.87
4H	2H	0.00	0.00	0.00	0.00	0.00	13.31	14.37	13.71	14.72	15.10
	3H	0.00	0.00	0.00	0.11	0.52	14.06	14.93	14.48	15.33	15.74
	4H	0.00	0.63	0.29	1.05	1.50	14.09	14.87	14.53	15.29	15.73
	6H	1.13	1.80	1.60	2.25	2.72	14.07	14.74	14.53	15.18	15.65
	8H	1.71	2.34	2.18	2.78	3.25	14.05	14.68	14.52	15.13	15.60
	12H	2.28	2.83	2.77	3.31	3.79	14.06	14.61	14.55	15.10	15.57
8H	4H	1.27	1.90	1.74	2.34	2.82	13.97	14.60	14.44	15.05	15.52
	6H	2.83	3.34	3.34	3.84	4.32	13.96	14.47	14.47	14.97	15.45
	8H	3.62	4.08	4.15	4.60	5.09	13.98	14.43	14.50	14.95	15.44
	12H	4.47	4.87	4.98	5.36	5.94	14.04	14.44	14.55	14.94	15.51
12H	4H	1.49	2.04	1.98	2.53	3.00	13.93	14.48	14.42	14.97	15.44
	6H	3.21	3.66	3.73	4.18	4.67	13.92	14.37	14.44	14.89	15.38
	8H	4.19	4.59	4.71	5.09	5.66	13.97	14.37	14.48	14.86	15.44