

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: P1175378

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

Issue Date: 8/18/2025

Test Information

Test Method: LM-79-2024
Report Number: P1175378
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-82)
Test Lab: INNOVATION CENTER
Issue Date: 8/18/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-S610D927-X4F0-XX-UDD-WVL-W
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

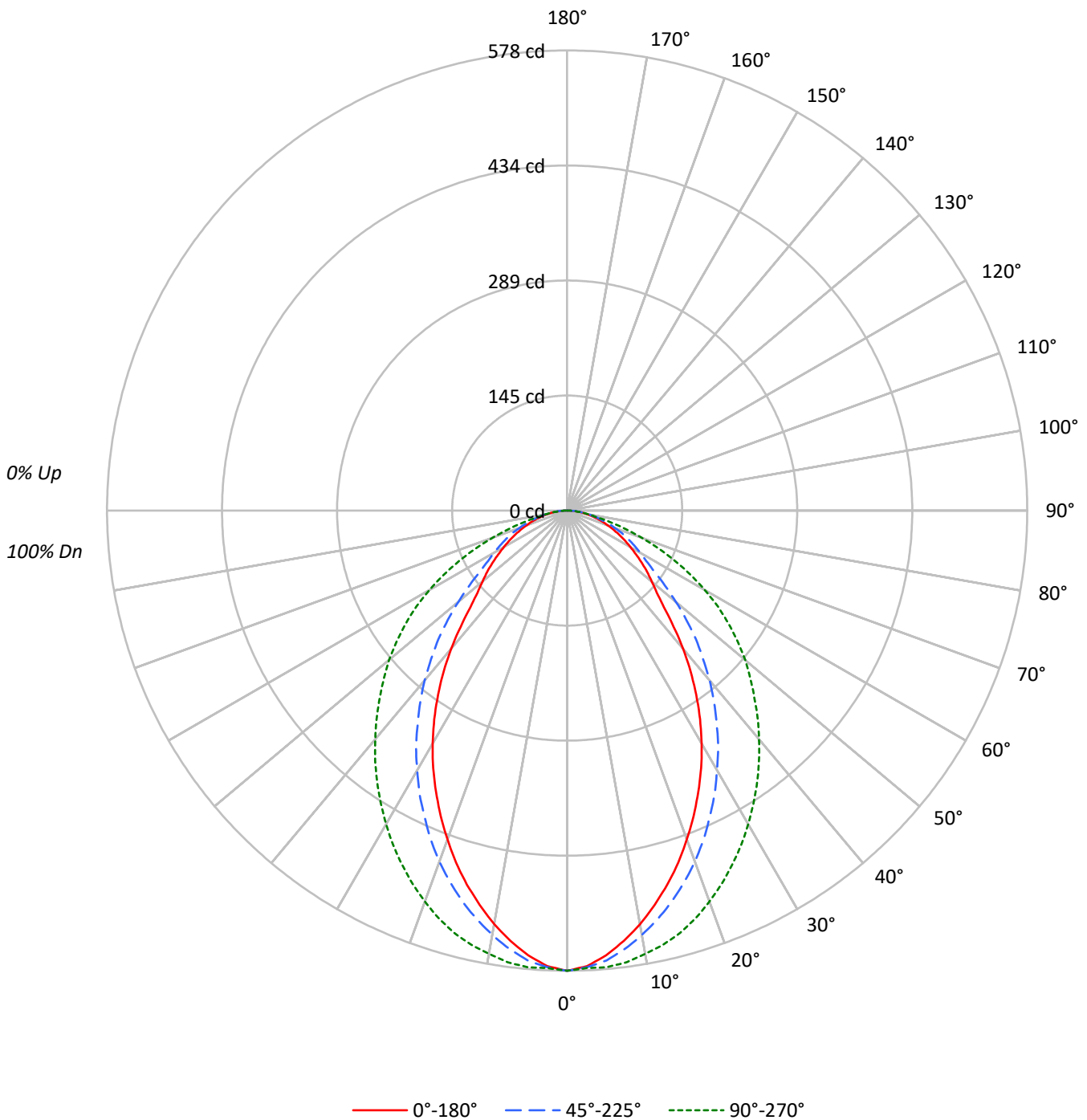
Lumens per Lamp: N/A
Luminaire Lumens: 1088.9 lumens
Efficiency: N/A
Efficacy: 55.6 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	73	69	77	72	68	74	70	66	64
4	86	75	67	61	84	74	66	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	47	59	52	47	58	51	47	56	51	46	44
7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40
8	65	52	44	39	63	51	44	39	50	43	38	49	43	38	48	42	38	36
9	61	48	40	35	59	48	40	35	46	40	35	45	39	35	44	39	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3980	3980	3980
5°	3876	3920	3978
10°	3688	3784	3952
15°	3466	3623	3914
20°	3221	3437	3829
25°	2960	3220	3728
30°	2684	2993	3617
35°	2375	2751	3497
40°	2038	2500	3370
45°	1672	2227	3240
50°	1488	1913	3128
55°	1372	1603	2969
60°	1264	1460	2750
65°	1175	1375	2431
70°	1097	1284	1985
75°	1032	1189	1487
80°	971	1090	1071
85°	893	1082	893

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 3240 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.5	4.9
10°-20°	144.2	13.2
20°-30°	198.4	18.2
30°-40°	210.5	19.3
40°-50°	184.2	16.9
50°-60°	141.3	13.0
60°-70°	94.2	8.6
70°-80°	48.3	4.4
80°-90°	14.3	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°	396.2	36.4
0°-40°	606.6	55.7
0°-60°	932.2	85.6
0°-90°	1088.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1088.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	578	578	578	578	578	
5°	561	568	567	571	576	52
15°	486	498	508	532	549	136
25°	390	403	424	460	491	179
35°	283	296	327	375	416	176
45°	172	186	229	286	333	136
55°	114	117	134	198	247	103
65°	72	73	84	111	149	72
75°	39	41	45	47	56	41
85°	11	13	14	13	11	13
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	578.0	578.0	578.0	578.0	578.0
2.5°	572.6	578.5	574.1	574.6	575.1
5°	560.8	568.2	567.2	571.1	575.6
7.5°	545.1	553.0	555.4	565.3	572.1
10°	527.5	536.3	541.2	555.9	565.3
12.5°	507.4	517.7	525.5	544.7	558.4
15°	486.3	497.5	508.3	532.4	549.1
17.5°	463.7	475.0	489.2	516.7	536.8
20°	439.6	451.9	469.1	498.5	522.6
22.5°	415.1	427.9	447.5	479.9	507.4
25°	389.6	402.8	423.9	459.8	490.7
27.5°	364.6	376.8	401.4	439.6	473.5
30°	337.6	350.3	376.4	418.5	454.9
32.5°	310.6	323.4	353.3	397.4	435.7
35°	282.6	295.9	327.3	375.4	416.1
37.5°	254.7	268.4	303.2	352.8	396.0
40°	226.7	241.4	278.2	330.2	374.9
42.5°	198.2	213.9	252.7	308.1	354.3
45°	171.7	186.0	228.7	285.6	332.7
47.5°	152.6	160.9	203.1	262.5	312.1
50°	138.9	142.8	178.6	240.4	292.0
52.5°	126.6	129.0	154.6	219.8	269.9
55°	114.3	116.8	133.5	198.2	247.3
57.5°	102.6	104.0	117.8	176.6	224.7
60°	91.8	92.7	106.0	155.1	199.7
62.5°	81.9	82.4	94.7	133.0	174.7
65°	72.1	72.6	84.4	110.9	149.2
67.5°	63.3	63.3	74.6	90.8	124.6
70°	54.5	54.5	63.8	73.6	98.6
72.5°	46.6	47.6	54.0	59.4	77.0
75°	38.8	41.2	44.7	47.1	55.9
77.5°	31.4	34.3	35.8	36.8	37.3
80°	24.5	26.5	27.5	28.0	27.0
82.5°	18.2	19.6	20.1	20.1	18.6
85°	11.3	12.8	13.7	13.2	11.3
87.5°	5.4	7.4	7.9	6.9	5.4
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	11.41	12.91	11.78	13.23	13.54	15.44	16.94	15.80	17.25	17.56
	3H	13.00	14.35	13.38	14.67	15.04	16.83	18.17	17.20	18.50	18.86
	4H	13.65	14.91	14.05	15.25	15.63	17.23	18.49	17.63	18.84	19.22
	6H	14.15	15.32	14.57	15.68	16.08	17.44	18.60	17.85	18.97	19.36
	8H	14.33	15.44	14.76	15.83	16.23	17.49	18.60	17.92	18.99	19.39
	12H	14.46	15.52	14.89	15.90	16.33	17.53	18.59	17.96	18.97	19.40
4H	2H	12.18	13.44	12.58	13.79	14.17	15.57	16.83	15.97	17.18	17.56
	3H	13.97	15.01	14.38	15.41	15.81	17.14	18.18	17.55	18.58	18.99
	4H	14.73	15.68	15.17	16.09	16.53	17.65	18.59	18.08	19.01	19.44
	6H	15.37	16.19	15.83	16.64	17.10	17.97	18.79	18.43	19.24	19.70
	8H	15.60	16.37	16.07	16.81	17.28	18.07	18.84	18.54	19.28	19.75
	12H	15.78	16.46	16.26	16.94	17.41	18.15	18.83	18.63	19.31	19.78
8H	4H	15.12	15.88	15.58	16.33	16.80	17.75	18.51	18.21	18.96	19.43
	6H	15.89	16.53	16.39	17.02	17.50	18.17	18.80	18.66	19.29	19.77
	8H	16.21	16.78	16.73	17.29	17.78	18.33	18.89	18.84	19.40	19.89
	12H	16.47	16.97	16.98	17.47	18.03	18.46	18.97	18.97	19.46	20.02
12H	4H	15.16	15.84	15.64	16.32	16.79	17.75	18.43	18.23	18.91	19.38
	6H	15.97	16.54	16.48	17.05	17.54	18.18	18.75	18.69	19.26	19.75
	8H	16.35	16.85	16.86	17.35	17.91	18.39	18.89	18.90	19.38	19.95