

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: P1057832

Luminaire Tested: S122RDRP-S1005D927-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1057832
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-58)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDRP-S1005D927-X4F0-XX-UDD-WVL-S
Description: DEFINE 2 SILVER REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

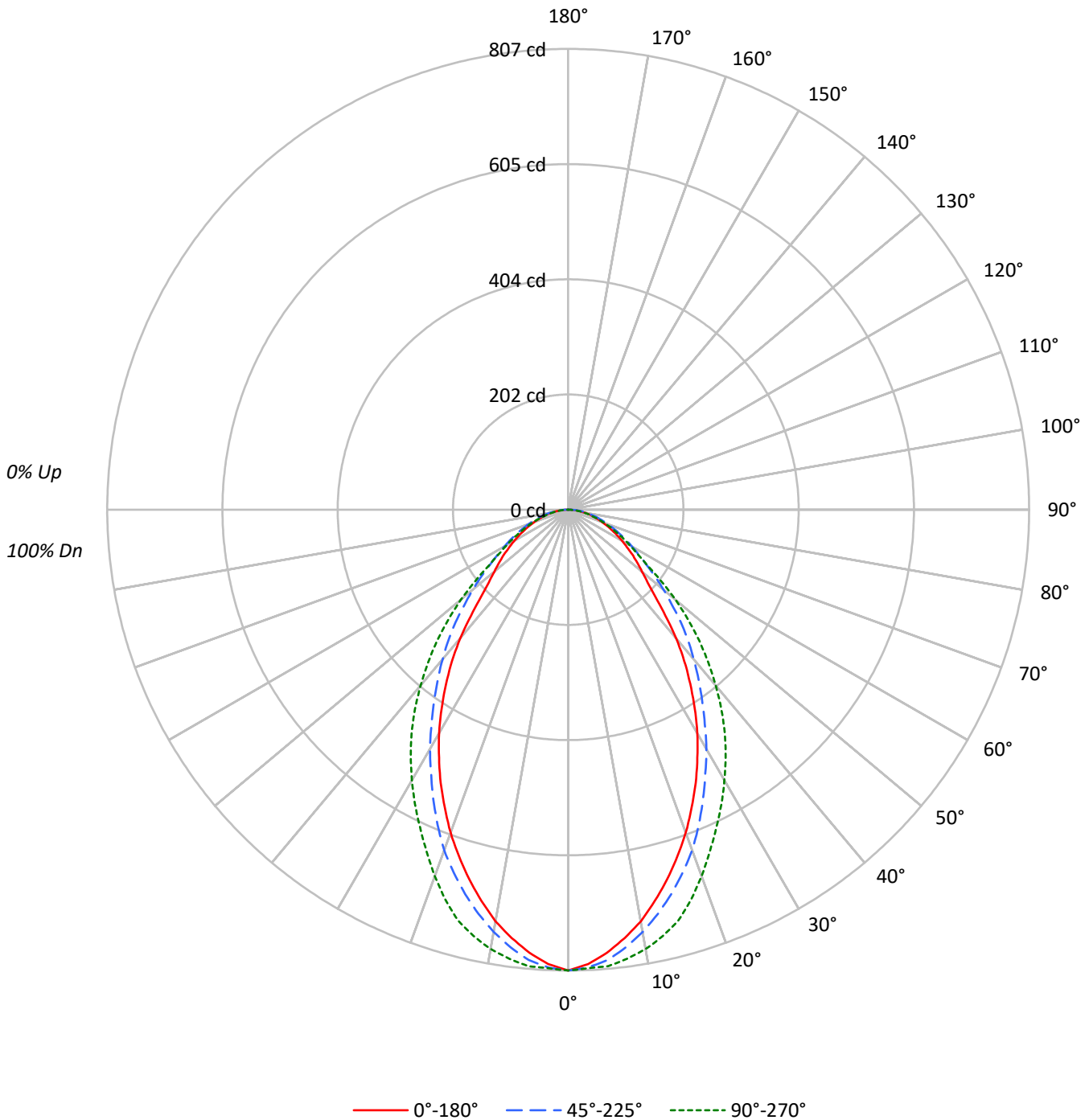
Lumens per Lamp: N/A
Luminaire Lumens: 1314.1 lumens
Efficiency: N/A
Efficacy: 31.4 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 1.05 / 1.05
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.8
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	110	106	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89					87				
2	102	95	89	84	100	93	88	83	90	85	81	87	83	79	84	80	78					76				
3	94	85	78	73	92	84	77	72	81	75	71	78	73	69	76	72	68					66				
4	88	77	69	63	85	76	69	63	73	67	62	71	66	61	69	64	61					59				
5	81	70	62	56	79	69	61	56	67	60	55	65	59	55	63	58	54					52				
6	76	64	56	50	74	63	56	50	61	55	50	60	54	49	58	53	49					47				
7	71	59	51	45	69	58	51	45	57	50	45	55	49	45	54	49	44					43				
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41					39				
9	63	50	43	38	61	50	43	38	49	42	38	48	42	37	47	41	37					36				
10	59	47	40	35	58	46	39	35	45	39	35	45	39	34	44	38	34					33				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14891	14891	14891
5°	14428	14665	14861
10°	13716	14068	14637
15°	12797	13313	14230
20°	11821	12465	13408
25°	10754	11375	12495
30°	9633	10306	11655
35°	8389	9209	10765
40°	7082	8238	9676
45°	5624	7275	8465
50°	4843	6252	7027
55°	4407	5350	5389
60°	4019	4753	4580
65°	3681	4296	4039
70°	3410	3982	3604
75°	3173	3757	3173
80°	2986	3613	2858
85°	2985	3726	2477

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 8465 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.5	5.7
10°-20°	196.9	15.0
20°-30°	259.2	19.7
30°-40°	260.6	19.8
40°-50°	211.2	16.1
50°-60°	145.5	11.1
60°-70°	95.2	7.2
70°-80°	53.0	4.0
80°-90°	18.0	1.4
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°	530.6	40.4
0°-40°	791.2	60.2
0°-60°	1147.8	87.4
0°-90°	1314.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1314.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	807	807	807	807	807	
5°	779	794	792	795	802	73
15°	670	686	697	723	745	188
25°	528	542	559	583	614	242
35°	372	390	409	445	478	232
45°	216	240	279	303	324	170
55°	137	152	166	170	168	123
65°	84	101	98	94	92	84
75°	44	55	53	47	44	48
85°	14	19	18	15	12	15
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	807.0	807.0	807.0	807.0	807.0
2.5°	796.4	810.5	802.3	802.3	803.5
5°	778.9	794.1	791.7	795.3	802.3
7.5°	756.6	773.0	773.0	783.5	792.9
10°	732.0	748.4	750.8	767.1	781.2
12.5°	701.6	718.0	725.0	746.1	764.8
15°	669.9	686.3	696.9	722.6	744.9
17.5°	636.0	652.4	666.4	693.4	715.6
20°	602.0	617.2	634.8	658.2	682.8
22.5°	564.5	580.9	597.3	619.6	647.7
25°	528.2	542.3	558.7	583.3	613.7
27.5°	489.6	504.8	520.0	549.3	580.9
30°	452.1	467.3	483.7	514.2	547.0
32.5°	412.3	428.7	445.1	479.0	513.0
35°	372.4	390.0	408.8	445.1	477.9
37.5°	333.8	352.5	374.8	412.3	440.4
40°	294.0	313.9	342.0	374.8	401.7
42.5°	251.8	276.4	310.4	338.5	363.1
45°	215.5	240.1	278.8	303.3	324.4
47.5°	188.6	208.5	246.0	267.0	284.6
50°	168.7	183.9	217.8	233.1	244.8
52.5°	152.3	167.5	190.9	201.5	205.0
55°	137.0	152.3	166.3	169.8	167.5
57.5°	121.8	138.2	146.4	142.9	142.9
60°	108.9	126.5	128.8	124.1	124.1
62.5°	96.0	113.6	113.6	107.8	107.8
65°	84.3	100.7	98.4	93.7	92.5
67.5°	73.8	89.0	85.5	80.8	79.6
70°	63.2	77.3	73.8	67.9	66.8
72.5°	53.9	66.8	62.1	57.4	55.0
75°	44.5	55.0	52.7	46.8	44.5
77.5°	36.3	44.5	42.2	37.5	35.1
80°	28.1	35.1	34.0	29.3	26.9
82.5°	21.1	26.9	25.8	22.3	18.7
85°	14.1	18.7	17.6	15.2	11.7
87.5°	7.0	12.9	11.7	10.5	5.9
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	16.11	17.55	16.48	17.87	18.18	16.47	17.91	16.84	18.23	18.54
	3H	17.66	18.95	18.04	19.27	19.64	17.82	19.11	18.20	19.44	19.80
	4H	18.23	19.44	18.63	19.78	20.17	18.30	19.51	18.70	19.86	20.24
	6H	18.66	19.77	19.07	20.14	20.53	18.65	19.77	19.07	20.14	20.53
	8H	18.81	19.87	19.24	20.26	20.66	18.77	19.83	19.20	20.22	20.62
	12H	18.93	19.94	19.36	20.32	20.75	18.84	19.86	19.28	20.24	20.67
4H	2H	16.70	17.91	17.10	18.26	18.64	16.99	18.20	17.39	18.54	18.93
	3H	18.52	19.52	18.93	19.92	20.33	18.56	19.56	18.97	19.96	20.36
	4H	19.27	20.17	19.70	20.59	21.03	19.16	20.06	19.60	20.48	20.92
	6H	19.85	20.64	20.31	21.08	21.54	19.64	20.43	20.10	20.87	21.33
	8H	20.06	20.80	20.53	21.24	21.71	19.81	20.54	20.27	20.99	21.45
	12H	20.23	20.88	20.72	21.36	21.84	19.93	20.58	20.41	21.06	21.53
8H	4H	19.55	20.28	20.02	20.73	21.20	19.46	20.20	19.93	20.64	21.11
	6H	20.31	20.91	20.81	21.40	21.88	20.08	20.69	20.58	21.18	21.66
	8H	20.63	21.17	21.15	21.69	22.17	20.33	20.87	20.85	21.39	21.87
	12H	20.92	21.40	21.43	21.89	22.46	20.54	21.02	21.05	21.51	22.08
12H	4H	19.57	20.22	20.05	20.70	21.18	19.50	20.15	19.98	20.63	21.10
	6H	20.37	20.91	20.88	21.42	21.91	20.16	20.70	20.68	21.21	21.70
	8H	20.77	21.25	21.28	21.74	22.31	20.48	20.96	20.99	21.45	22.02