

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: P1060355

Luminaire Tested: S124RDRP-S1195D935-X4F0-XX-UDD-BVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1060355
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-78)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDRP-S1195D935-X4F0-XX-UDD-BVL-S
Description: DEFINE 4 SILVER REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

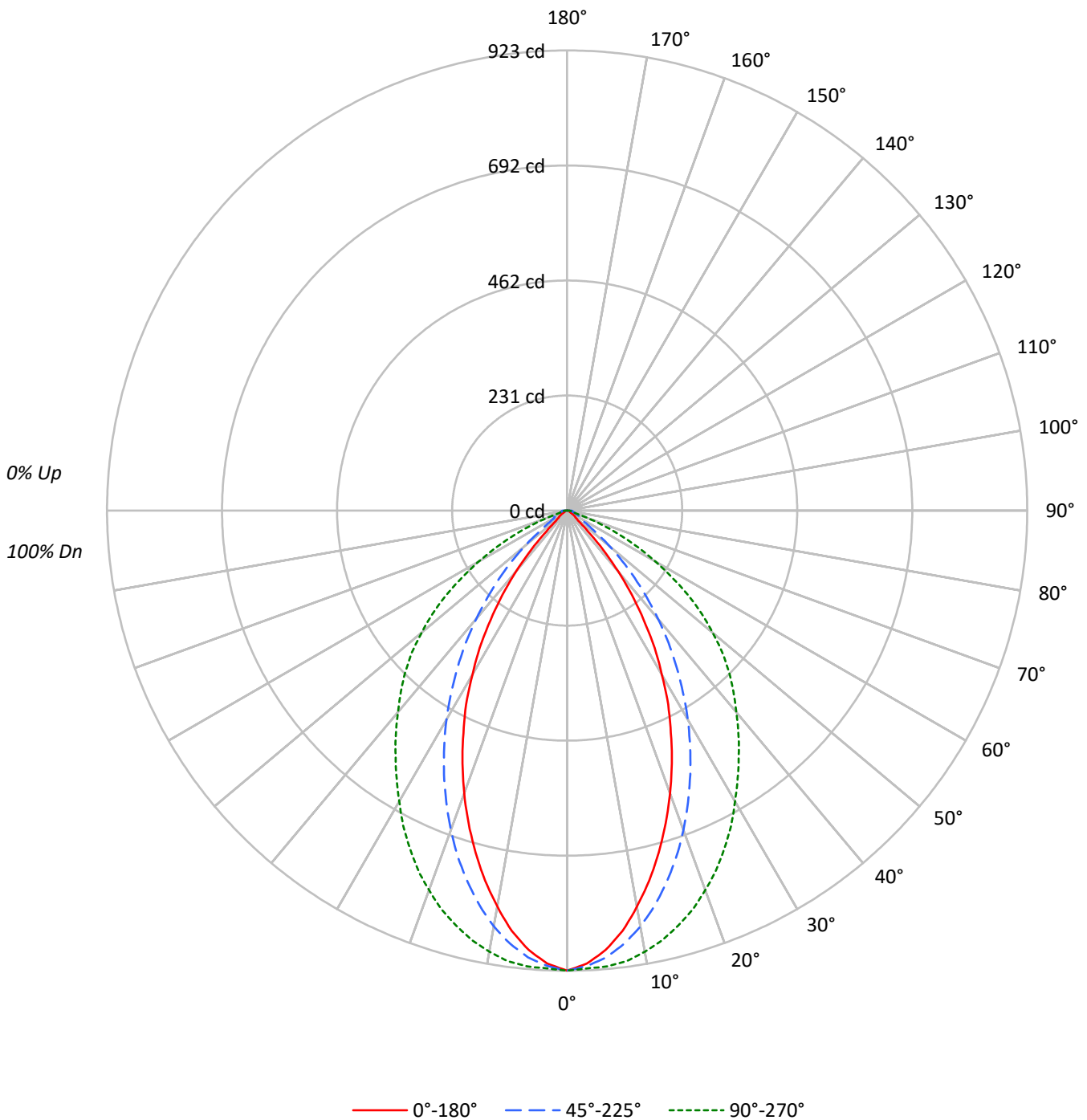
Lumens per Lamp: N/A
Luminaire Lumens: 1158.1 lumens
Efficiency: N/A
Efficacy: 27.7 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.11 / 0.97
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90					90			
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81					81			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73					73			
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65					65			
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59					59			
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54					54			
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	50					50			
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46					46			
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42					42			
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39					39			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7945	7945	7945
5°	7648	7775	7933
10°	7053	7405	7855
15°	6330	6875	7681
20°	5532	6250	7425
25°	4679	5551	7095
30°	3779	4813	6696
35°	2813	4021	6308
40°	1786	3187	5935
45°	715	2337	5596
50°	311	1490	5108
55°	239	770	4459
60°	169	527	3536
65°	124	524	2415
70°	123	461	1108
75°	163	489	446
80°	243	545	486
85°	484	968	721

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5596 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.4	7.3
10°-20°	217.9	18.8
20°-30°	275.2	23.8
30°-40°	252.7	21.8
40°-50°	172.3	14.9
50°-60°	93.5	8.1
60°-70°	39.6	3.4
70°-80°	13.7	1.2
80°-90°	8.7	0.8
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°	577.5	49.9
0°-40°	830.2	71.7
0°-60°	1096.0	94.6
0°-90°	1158.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1158.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	923	923	923	923	923	
5°	885	898	900	907	918	82
15°	710	733	771	826	862	198
25°	492	524	584	675	747	225
35°	268	303	382	502	600	166
45°	59	94	192	340	460	54
55°	16	17	51	187	297	14
65°	6	7	26	59	118	6
75°	5	13	15	13	13	5
85°	5	10	10	10	7	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	922.7	922.7	922.7	922.7	922.7
2.5°	909.3	920.3	914.2	916.6	919.1
5°	884.8	898.3	899.5	906.8	917.8
7.5°	850.6	866.5	876.3	894.6	911.7
10°	806.6	826.2	846.9	876.3	898.3
12.5°	760.2	781.0	811.5	853.1	882.4
15°	710.1	733.3	771.2	826.2	861.6
17.5°	657.5	683.2	728.4	793.2	838.4
20°	603.7	631.8	682.0	755.3	810.3
22.5°	548.7	578.1	633.1	716.2	781.0
25°	492.5	524.3	584.2	674.6	746.7
27.5°	438.8	468.1	534.1	633.1	712.5
30°	380.1	413.1	484.0	590.3	673.4
32.5°	326.3	358.1	432.6	546.3	636.7
35°	267.6	303.1	382.5	502.3	600.1
37.5°	212.7	246.9	333.6	460.7	564.6
40°	158.9	194.3	283.5	419.2	528.0
42.5°	106.3	144.2	235.9	376.4	493.7
45°	58.7	94.1	191.9	339.8	459.5
47.5°	30.6	51.3	150.3	303.1	422.9
50°	23.2	28.1	111.2	262.8	381.3
52.5°	19.6	20.8	75.8	222.4	339.8
55°	15.9	17.1	51.3	187.0	297.0
57.5°	12.2	13.4	36.7	152.8	249.3
60°	9.8	11.0	30.6	117.3	205.3
62.5°	7.3	8.6	29.3	86.8	161.3
65°	6.1	7.3	25.7	58.7	118.5
67.5°	4.9	7.3	22.0	37.9	79.4
70°	4.9	9.8	18.3	24.4	44.0
72.5°	4.9	11.0	15.9	15.9	15.9
75°	4.9	13.4	14.7	13.4	13.4
77.5°	4.9	12.2	12.2	12.2	12.2
80°	4.9	11.0	11.0	11.0	9.8
82.5°	4.9	9.8	11.0	11.0	8.6
85°	4.9	9.8	9.8	9.8	7.3
87.5°	3.7	9.8	9.8	9.8	4.9
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	0.00	0.00	0.00	0.00	0.00	15.64	16.92	16.01	17.23	17.55
	3H	0.00	0.27	0.00	0.60	0.97	16.00	17.13	16.38	17.46	17.82
	4H	0.53	1.58	0.94	1.93	2.32	15.97	17.01	16.37	17.37	17.75
	6H	1.90	2.87	2.32	3.24	3.63	15.94	16.90	16.36	17.27	17.67
	8H	2.59	3.50	3.02	3.89	4.30	15.93	16.84	16.36	17.23	17.64
	12H	3.40	4.27	3.83	4.65	5.08	15.93	16.80	16.36	17.18	17.61
4H	2H	1.34	2.39	1.74	2.74	3.12	15.45	16.50	15.85	16.85	17.23
	3H	2.76	3.62	3.18	4.02	4.43	15.84	16.70	16.25	17.10	17.50
	4H	4.21	4.97	4.64	5.39	5.84	15.82	16.58	16.26	17.00	17.45
	6H	5.45	6.11	5.92	6.56	7.03	15.84	16.50	16.30	16.94	17.41
	8H	6.03	6.64	6.50	7.09	7.56	15.85	16.46	16.32	16.91	17.38
	12H	6.70	7.25	7.19	7.73	8.21	15.89	16.43	16.37	16.91	17.39
8H	4H	5.28	5.90	5.75	6.35	6.82	15.72	16.34	16.19	16.78	17.26
	6H	6.90	7.40	7.40	7.90	8.38	15.77	16.27	16.27	16.77	17.25
	8H	7.73	8.19	8.26	8.70	9.19	15.83	16.28	16.35	16.80	17.29
	12H	8.70	9.10	9.22	9.60	10.17	15.95	16.34	16.46	16.84	17.41
12H	4H	5.47	6.01	5.96	6.50	6.97	15.68	16.23	16.17	16.71	17.18
	6H	7.24	7.69	7.77	8.21	8.70	15.74	16.19	16.26	16.71	17.20
	8H	8.27	8.67	8.78	9.16	9.73	15.84	16.24	16.36	16.74	17.31