

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1060763

Luminaire Tested: S124RDR-H1195D935-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1060763
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-77)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDR-H1195D935-X4F0-XX-UDD-SVL-S
Description: DEFINE 4 SILVER REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
HIGH PERFORMANCE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

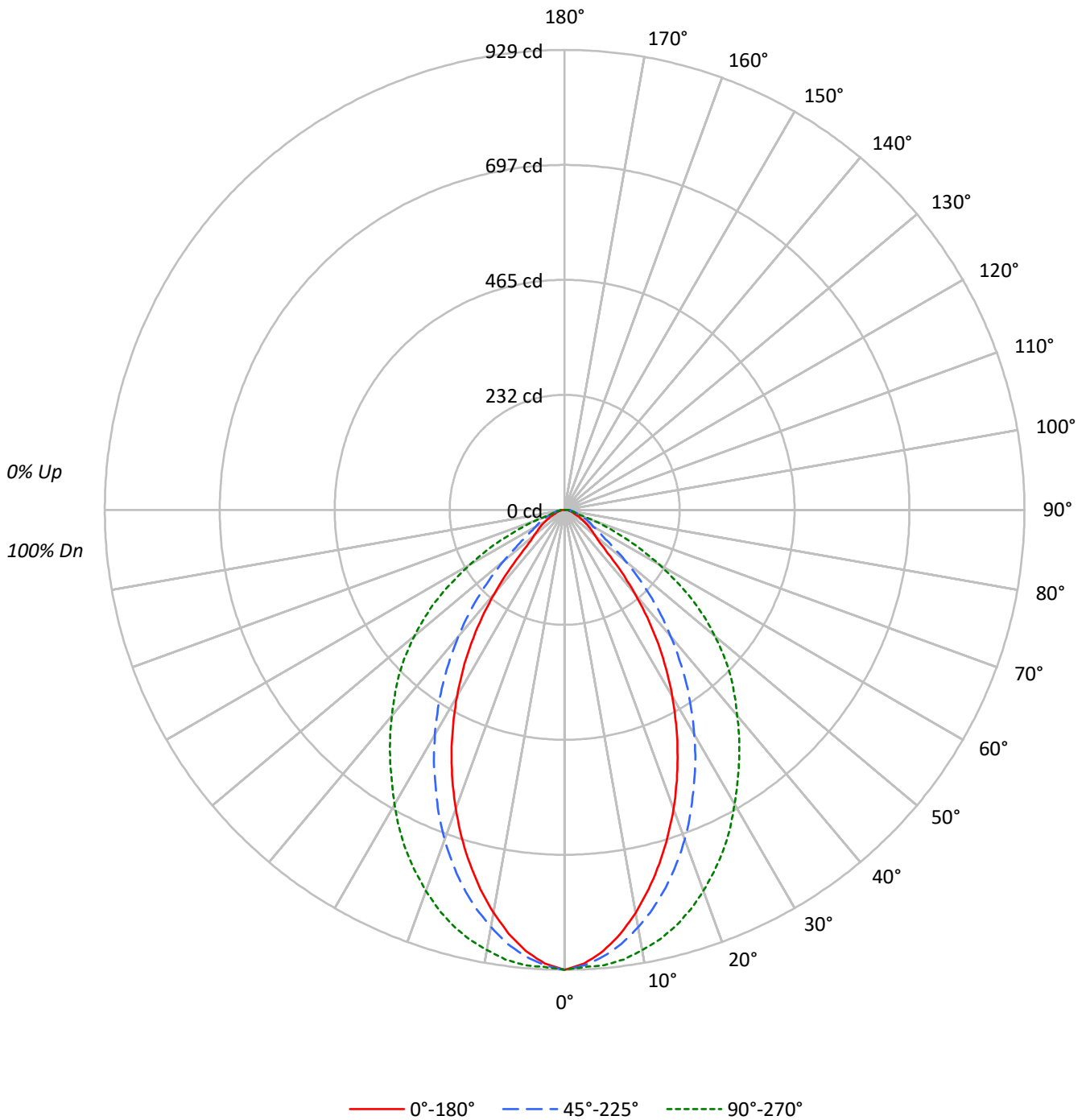
Lumens per Lamp: N/A
Luminaire Lumens: 1306.3 lumens
Efficiency: N/A
Efficacy: 35.8 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.12 / 1.01
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 36.5
Input Voltage (V): 120
Input Current (Ain): 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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100	
1	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89			89	
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79			79	
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	70			70	
4	90	80	73	68	88	79	72	67	77	71	67	75	70	66	73	68	65	63			63	
5	84	73	66	61	82	72	65	60	70	64	60	69	63	59	67	62	59	57			57	
6	79	68	60	55	77	67	60	54	65	59	54	63	58	54	62	57	53	51			51	
7	74	62	55	50	72	62	54	49	60	54	49	59	53	49	58	52	49	47			47	
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	54	48	45	43			43	
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39			39	
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	36			36	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8000	8000	8000
5°	7735	7826	7979
10°	7224	7482	7896
15°	6596	7039	7755
20°	5892	6499	7506
25°	5133	5862	7210
30°	4325	5206	6828
35°	3454	4511	6461
40°	2484	3747	6098
45°	1497	2951	5772
50°	1077	2138	5305
55°	905	1437	4702
60°	734	1140	3785
65°	579	1035	2722
70°	506	864	1458
75°	472	785	709
80°	471	818	645
85°	701	1166	820

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5772 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.3	6.5
10°-20°	223.5	17.1
20°-30°	290.0	22.2
30°-40°	278.7	21.3
40°-50°	206.8	15.8
50°-60°	126.7	9.7
60°-70°	61.5	4.7
70°-80°	23.4	1.8
80°-90°	10.5	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°	598.7	45.8
0°-40°	877.4	67.2
0°-60°	1210.8	92.7
0°-90°	1306.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1306.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	929	929	929	929	929	
5°	895	908	905	914	923	83
15°	740	761	790	837	870	207
25°	540	567	617	696	759	247
35°	329	358	429	531	615	204
45°	123	154	242	370	474	102
55°	60	63	96	216	313	54
65°	28	31	51	80	134	29
75°	14	22	24	21	21	15
85°	7	12	12	11	8	7
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	929.0	929.0	929.0	929.0	929.0
2.5°	917.2	927.8	920.8	923.1	924.3
5°	894.8	907.8	905.4	913.7	923.1
7.5°	864.0	879.4	884.1	900.7	916.0
10°	826.2	845.1	855.7	882.9	903.0
12.5°	784.8	804.9	825.0	861.7	888.8
15°	739.9	761.2	789.6	836.8	869.9
17.5°	692.6	716.3	750.6	807.3	846.3
20°	643.0	667.8	709.2	771.8	819.1
22.5°	592.2	618.2	664.3	734.0	789.6
25°	540.2	567.3	617.0	696.2	758.8
27.5°	487.0	515.3	572.1	656.0	724.5
30°	435.0	462.1	523.6	614.6	686.7
32.5°	381.8	410.1	476.3	572.1	650.1
35°	328.6	358.1	429.1	530.7	614.6
37.5°	274.2	306.1	380.6	490.5	579.2
40°	221.0	251.8	333.3	449.1	542.5
42.5°	169.0	202.1	288.4	407.8	508.2
45°	122.9	153.7	242.3	370.0	474.0
47.5°	92.2	111.1	199.8	334.5	436.1
50°	80.4	83.9	159.6	295.5	396.0
52.5°	69.7	72.1	124.1	252.9	355.8
55°	60.3	62.6	95.7	216.3	313.2
57.5°	50.8	53.2	76.8	180.8	264.8
60°	42.6	44.9	66.2	144.2	219.8
62.5°	35.5	36.6	59.1	109.9	176.1
65°	28.4	30.7	50.8	80.4	133.6
67.5°	23.6	26.0	41.4	55.6	93.4
70°	20.1	26.0	34.3	39.0	57.9
72.5°	16.5	23.6	28.4	27.2	27.2
75°	14.2	22.5	23.6	21.3	21.3
77.5°	11.8	20.1	18.9	17.7	16.5
80°	9.5	16.5	16.5	14.2	13.0
82.5°	8.3	13.0	13.0	13.0	10.6
85°	7.1	11.8	11.8	10.6	8.3
87.5°	4.7	9.5	10.6	9.5	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	7.04	8.38	7.40	8.69	9.00	16.14	17.48	16.50	17.79	18.10
	3H	8.08	9.27	8.46	9.60	9.96	16.64	17.83	17.02	18.16	18.52
	4H	8.60	9.70	9.00	10.05	10.44	16.65	17.76	17.06	18.11	18.49
	6H	9.05	10.06	9.46	10.43	10.83	16.65	17.67	17.07	18.04	18.43
	8H	9.24	10.20	9.67	10.59	11.00	16.65	17.61	17.08	18.00	18.41
	12H	9.45	10.38	9.89	10.76	11.19	16.65	17.57	17.08	17.95	18.38
4H	2H	8.13	9.24	8.53	9.59	9.97	16.03	17.13	16.43	17.48	17.87
	3H	9.40	10.31	9.81	10.71	11.11	16.60	17.51	17.02	17.91	18.32
	4H	10.11	10.92	10.54	11.34	11.78	16.65	17.46	17.09	17.88	18.32
	6H	10.74	11.44	11.20	11.88	12.35	16.70	17.40	17.17	17.85	18.31
	8H	10.98	11.64	11.45	12.09	12.56	16.72	17.37	17.19	17.82	18.29
	12H	11.26	11.84	11.75	12.32	12.80	16.75	17.33	17.24	17.81	18.29
8H	4H	10.53	11.19	11.00	11.64	12.11	16.60	17.25	17.07	17.70	18.17
	6H	11.41	11.95	11.91	12.44	12.92	16.69	17.23	17.20	17.72	18.21
	8H	11.82	12.30	12.34	12.81	13.30	16.75	17.24	17.28	17.75	18.24
	12H	12.30	12.72	12.81	13.22	13.79	16.85	17.28	17.37	17.77	18.34
12H	4H	10.58	11.16	11.06	11.64	12.11	16.57	17.15	17.06	17.63	18.11
	6H	11.52	12.00	12.04	12.52	13.01	16.67	17.15	17.19	17.67	18.16
	8H	12.04	12.47	12.55	12.96	13.53	16.78	17.20	17.29	17.70	18.27