

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: P1060520

Luminaire Tested: S124RDRP-S575D935-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1060520
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: S124RDRP-S575D935-X4F0-XX-UDD-SVL-S
Description: DEFINE 4 SILVER REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

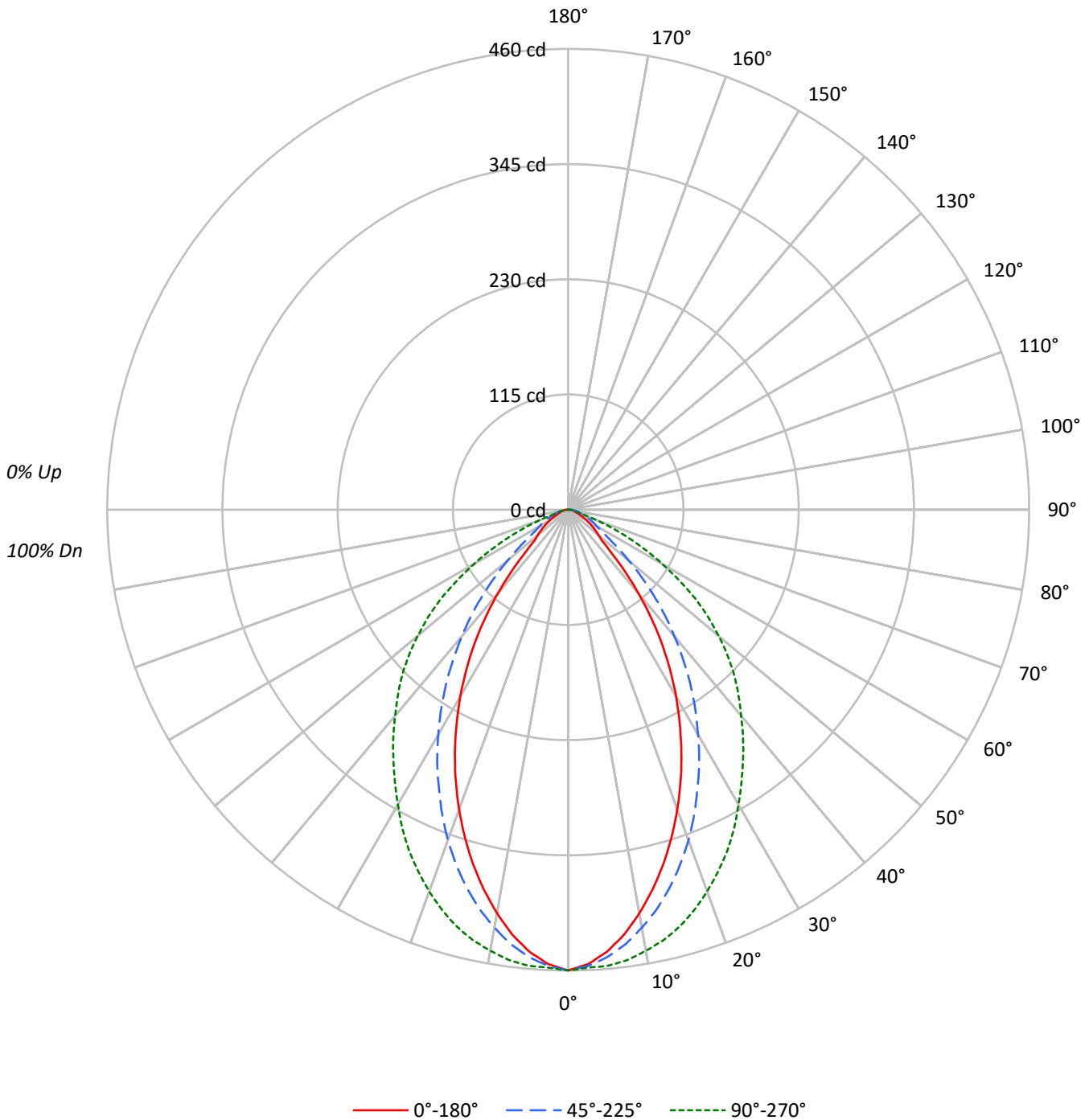
Lumens per Lamp: N/A
Luminaire Lumens: 646.6 lumens
Efficiency: N/A
Efficacy: 33.0 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.12 / 1.01
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3960	3960	3960
5°	3828	3874	3949
10°	3576	3704	3909
15°	3266	3484	3839
20°	2917	3216	3716
25°	2541	2902	3569
30°	2141	2577	3380
35°	1709	2233	3198
40°	1230	1855	3018
45°	740	1460	2857
50°	533	1058	2626
55°	447	712	2327
60°	363	565	1874
65°	285	513	1347
70°	249	428	723
75°	233	389	349
80°	233	407	317
85°	346	583	405

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 2857 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.2	6.5
10°-20°	110.6	17.1
20°-30°	143.5	22.2
30°-40°	138.0	21.3
40°-50°	102.4	15.8
50°-60°	62.7	9.7
60°-70°	30.5	4.7
70°-80°	11.6	1.8
80°-90°	5.2	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°	296.4	45.8
0°-40°	434.3	67.2
0°-60°	599.4	92.7
0°-90°	646.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	646.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	460	460	460	460	460	
5°	443	449	448	452	457	41
15°	366	377	391	414	431	102
25°	267	281	305	345	376	122
35°	163	177	212	263	304	101
45°	61	76	120	183	235	50
55°	30	31	47	107	155	27
65°	14	15	25	40	66	15
75°	7	11	12	10	10	7
85°	4	6	6	5	4	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	459.9	459.9	459.9	459.9	459.9
2.5°	454.0	459.3	455.8	456.9	457.5
5°	442.9	449.3	448.2	452.3	456.9
7.5°	427.7	435.3	437.6	445.8	453.4
10°	409.0	418.3	423.6	437.0	447.0
12.5°	388.5	398.4	408.4	426.5	440.0
15°	366.3	376.8	390.8	414.2	430.6
17.5°	342.9	354.6	371.5	399.6	418.9
20°	318.3	330.6	351.0	382.1	405.5
22.5°	293.1	306.0	328.8	363.3	390.8
25°	267.4	280.8	305.4	344.6	375.6
27.5°	241.0	255.1	283.2	324.7	358.6
30°	215.3	228.8	259.2	304.2	339.9
32.5°	189.0	203.0	235.8	283.2	321.8
35°	162.6	177.3	212.4	262.7	304.2
37.5°	135.7	151.5	188.4	242.8	286.7
40°	109.4	124.6	165.0	222.3	268.5
42.5°	83.7	100.0	142.8	201.8	251.6
45°	60.8	76.1	119.9	183.1	234.6
47.5°	45.6	55.0	98.9	165.6	215.9
50°	39.8	41.5	79.0	146.3	196.0
52.5°	34.5	35.7	61.4	125.2	176.1
55°	29.8	31.0	47.4	107.1	155.0
57.5°	25.2	26.3	38.0	89.5	131.1
60°	21.1	22.2	32.8	71.4	108.8
62.5°	17.6	18.1	29.3	54.4	87.2
65°	14.0	15.2	25.2	39.8	66.1
67.5°	11.7	12.9	20.5	27.5	46.2
70°	9.9	12.9	17.0	19.3	28.7
72.5°	8.2	11.7	14.0	13.5	13.5
75°	7.0	11.1	11.7	10.5	10.5
77.5°	5.9	9.9	9.4	8.8	8.2
80°	4.7	8.2	8.2	7.0	6.4
82.5°	4.1	6.4	6.4	6.4	5.3
85°	3.5	5.9	5.9	5.3	4.1
87.5°	2.3	4.7	5.3	4.7	2.9
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	4.59	5.93	4.96	6.24	6.56	13.69	15.03	14.06	15.35	15.66
	3H	5.64	6.82	6.02	7.15	7.52	14.20	15.38	14.58	15.71	16.08
	4H	6.15	7.26	6.55	7.61	7.99	14.21	15.32	14.61	15.67	16.05
	6H	6.60	7.62	7.02	7.99	8.39	14.21	15.22	14.62	15.59	15.99
	8H	6.80	7.76	7.23	8.15	8.55	14.20	15.17	14.63	15.56	15.96
	12H	7.01	7.93	7.44	8.31	8.74	14.20	15.13	14.64	15.51	15.94
4H	2H	5.69	6.80	6.09	7.15	7.53	13.58	14.69	13.99	15.04	15.42
	3H	6.96	7.87	7.37	8.27	8.67	14.16	15.07	14.57	15.47	15.87
	4H	7.66	8.47	8.10	8.89	9.34	14.21	15.02	14.64	15.44	15.88
	6H	8.30	9.00	8.76	9.44	9.91	14.26	14.96	14.72	15.41	15.87
	8H	8.54	9.19	9.01	9.64	10.11	14.28	14.93	14.75	15.38	15.85
	12H	8.82	9.40	9.30	9.88	10.35	14.31	14.89	14.80	15.37	15.85
8H	4H	8.09	8.74	8.56	9.19	9.66	14.16	14.81	14.63	15.26	15.73
	6H	8.97	9.50	9.47	10.00	10.48	14.25	14.79	14.75	15.28	15.76
	8H	9.37	9.85	9.89	10.37	10.86	14.31	14.79	14.83	15.31	15.80
	12H	9.85	10.28	10.37	10.77	11.34	14.41	14.84	14.93	15.33	15.90
12H	4H	8.13	8.71	8.62	9.19	9.67	14.13	14.71	14.62	15.19	15.66
	6H	9.08	9.56	9.60	10.08	10.57	14.23	14.71	14.75	15.23	15.72
	8H	9.60	10.02	10.11	10.52	11.09	14.33	14.76	14.85	15.25	15.83