

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: P1060349

Luminaire Tested: S124RDRP-S1195D930-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1060349
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-S1195D930-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: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

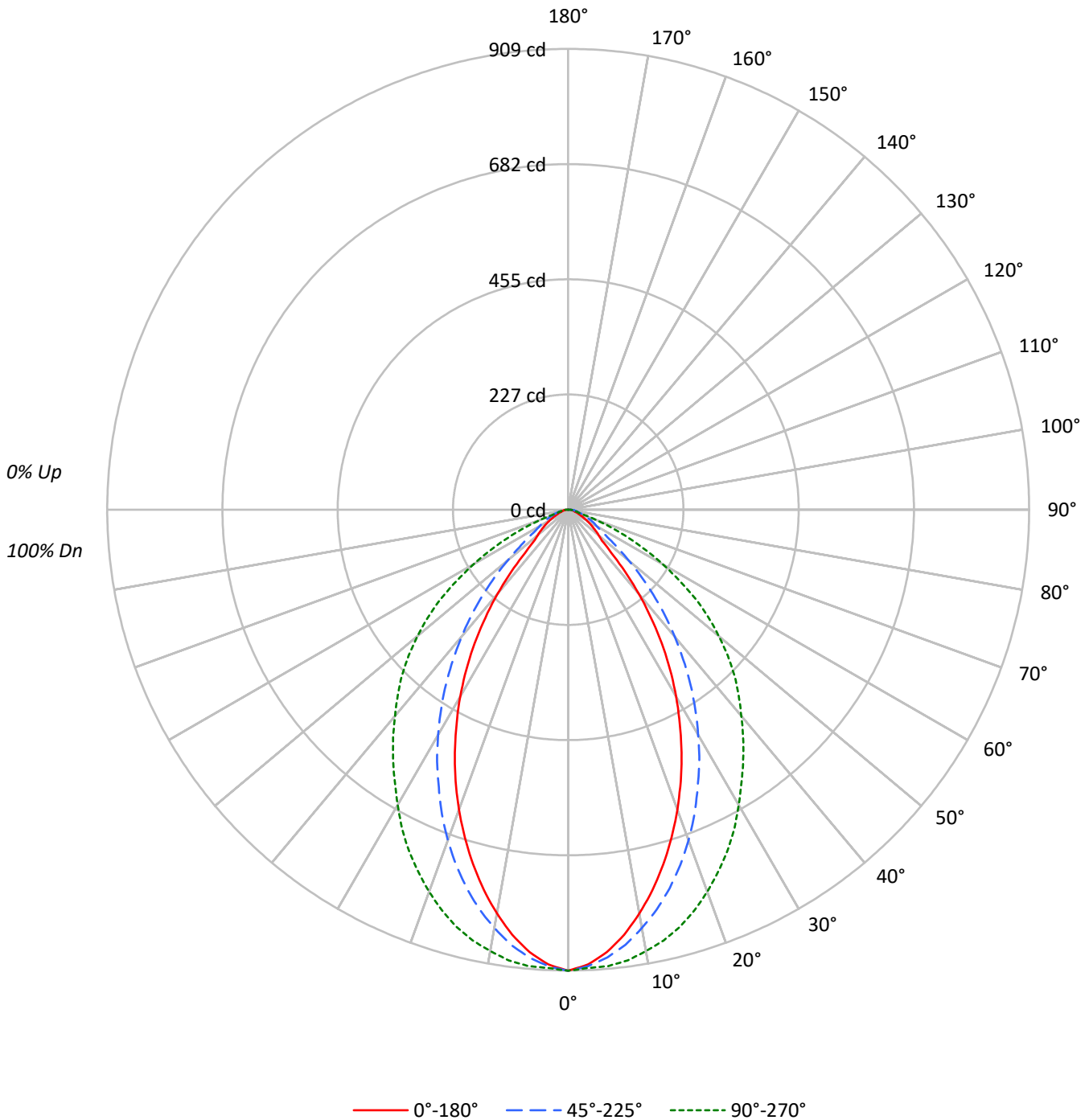
Lumens per Lamp: N/A
Luminaire Lumens: 1278.8 lumens
Efficiency: N/A
Efficacy: 30.6 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.12 / 1.01
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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	46	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°	7831	7831	7831
5°	7571	7661	7811
10°	7072	7325	7730
15°	6457	6890	7592
20°	5768	6361	7348
25°	5024	5739	7058
30°	4234	5097	6684
35°	3382	4415	6325
40°	2433	3668	5970
45°	1465	2889	5651
50°	1054	2093	5193
55°	886	1407	4603
60°	718	1116	3706
65°	566	1015	2663
70°	496	846	1428
75°	462	769	692
80°	461	803	630
85°	682	1146	800

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5651 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.5	6.5
10°-20°	218.7	17.1
20°-30°	283.8	22.2
30°-40°	272.8	21.3
40°-50°	202.4	15.8
50°-60°	124.0	9.7
60°-70°	60.2	4.7
70°-80°	22.9	1.8
80°-90°	10.3	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°	586.1	45.8
0°-40°	858.9	67.2
0°-60°	1185.3	92.7
0°-90°	1278.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1278.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	909	909	909	909	909	
5°	876	889	886	894	904	81
15°	724	745	773	819	852	202
25°	529	555	604	682	743	242
35°	322	351	420	520	602	199
45°	120	150	237	362	464	100
55°	59	61	94	212	307	53
65°	28	30	50	79	131	29
75°	14	22	23	21	21	15
85°	7	12	12	10	8	7
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	909.4	909.4	909.4	909.4	909.4
2.5°	897.9	908.3	901.3	903.6	904.8
5°	875.9	888.6	886.3	894.4	903.6
7.5°	845.8	860.8	865.5	881.7	896.7
10°	808.8	827.3	837.7	864.3	884.0
12.5°	768.3	787.9	807.6	843.5	870.1
15°	724.3	745.1	772.9	819.2	851.6
17.5°	678.0	701.2	734.7	790.3	828.4
20°	629.4	653.7	694.2	755.5	801.8
22.5°	579.7	605.1	650.3	718.5	772.9
25°	528.8	555.4	604.0	681.5	742.8
27.5°	476.7	504.5	560.0	642.2	709.3
30°	425.8	452.4	512.6	601.7	672.2
32.5°	373.7	401.5	466.3	560.0	636.4
35°	321.7	350.6	420.0	519.5	601.7
37.5°	268.4	299.7	372.6	480.2	566.9
40°	216.4	246.4	326.3	439.7	531.1
42.5°	165.5	197.9	282.3	399.2	497.5
45°	120.3	150.4	237.2	362.2	464.0
47.5°	90.2	108.8	195.5	327.4	426.9
50°	78.7	82.1	156.2	289.3	387.6
52.5°	68.3	70.6	121.5	247.6	348.3
55°	59.0	61.3	93.7	211.7	306.6
57.5°	49.8	52.1	75.2	177.0	259.2
60°	41.7	44.0	64.8	141.2	215.2
62.5°	34.7	35.9	57.9	107.6	172.4
65°	27.8	30.1	49.8	78.7	130.7
67.5°	23.1	25.5	40.5	54.4	91.4
70°	19.7	25.5	33.6	38.2	56.7
72.5°	16.2	23.1	27.8	26.6	26.6
75°	13.9	22.0	23.1	20.8	20.8
77.5°	11.6	19.7	18.5	17.4	16.2
80°	9.3	16.2	16.2	13.9	12.7
82.5°	8.1	12.7	12.7	12.7	10.4
85°	6.9	11.6	11.6	10.4	8.1
87.5°	4.6	9.3	10.4	9.3	5.8
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	6.97	8.31	7.33	8.62	8.93	16.06	17.40	16.43	17.71	18.03
	3H	8.01	9.20	8.39	9.53	9.90	16.56	17.75	16.94	18.08	18.45
	4H	8.53	9.63	8.93	9.99	10.37	16.58	17.68	16.98	18.04	18.42
	6H	8.98	10.00	9.39	10.37	10.76	16.58	17.59	16.99	17.96	18.36
	8H	9.17	10.13	9.60	10.53	10.93	16.57	17.54	17.00	17.93	18.33
	12H	9.38	10.30	9.81	10.69	11.12	16.57	17.49	17.00	17.88	18.31
4H	2H	8.06	9.17	8.47	9.52	9.90	15.95	17.06	16.35	17.41	17.79
	3H	9.33	10.24	9.75	10.64	11.05	16.53	17.44	16.94	17.84	18.24
	4H	10.04	10.85	10.47	11.27	11.71	16.58	17.39	17.01	17.81	18.25
	6H	10.67	11.37	11.13	11.82	12.28	16.63	17.33	17.09	17.78	18.24
	8H	10.92	11.57	11.38	12.02	12.49	16.65	17.30	17.12	17.75	18.22
	12H	11.19	11.77	11.68	12.25	12.72	16.68	17.26	17.17	17.74	18.21
8H	4H	10.46	11.12	10.93	11.56	12.04	16.53	17.18	16.99	17.63	18.10
	6H	11.34	11.88	11.84	12.37	12.85	16.62	17.16	17.12	17.65	18.13
	8H	11.75	12.23	12.27	12.74	13.24	16.68	17.16	17.20	17.68	18.17
	12H	12.22	12.65	12.74	13.14	13.72	16.78	17.21	17.29	17.70	18.27
12H	4H	10.51	11.09	10.99	11.57	12.04	16.50	17.08	16.98	17.56	18.03
	6H	11.45	11.94	11.98	12.45	12.94	16.60	17.08	17.12	17.60	18.09
	8H	11.97	12.40	12.48	12.89	13.46	16.70	17.13	17.22	17.62	18.19