

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: P1060343

Luminaire Tested: S124RDRP-S1195D927-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1060343
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-76)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDRP-S1195D927-X4F0-XX-UDD-WVL-S
Description: DEFINE 4 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

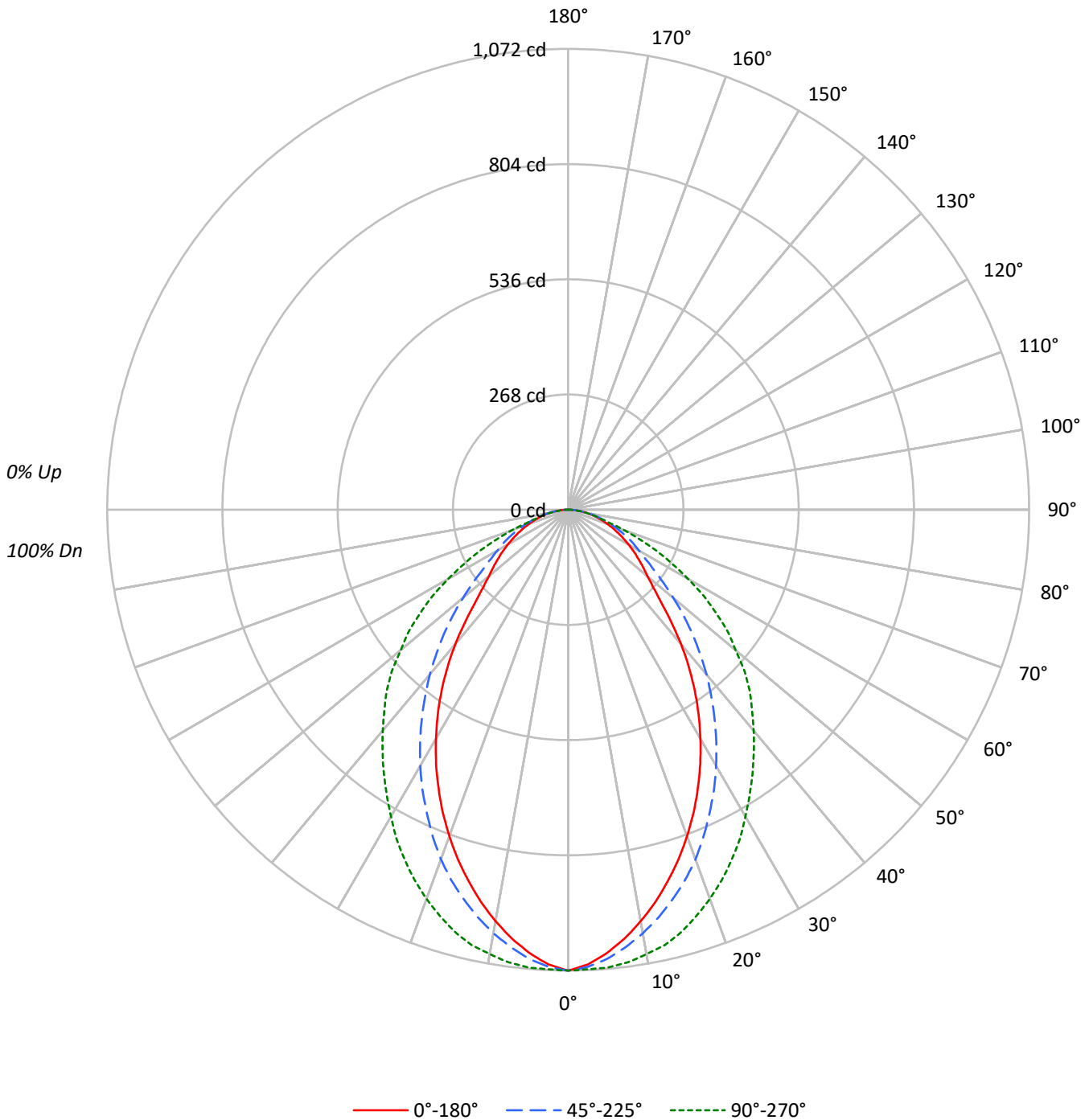
Lumens per Lamp: N/A
Luminaire Lumens: 1951.9 lumens
Efficiency: N/A
Efficacy: 46.7 lumens/watt
Spacing Criteria (0/90/45): 0.93 / 1.15 / 1.1
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

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	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	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87									87																			
2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	75									75																			
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	65									65																			
4	87	76	68	62	84	74	67	61	72	66	61	70	64	60	68	63	59	57									57																			
5	80	69	60	54	78	68	60	54	65	59	54	64	58	53	62	57	52	50									50																			
6	75	62	54	48	73	62	54	48	60	53	48	58	52	47	57	51	47	45									45																			
7	70	57	49	43	68	56	49	43	55	48	43	54	47	43	52	47	42	41									41																			
8	65	53	45	39	64	52	44	39	51	44	39	50	43	39	48	43	39	37									37																			
9	61	49	41	36	60	48	41	36	47	40	36	46	40	35	45	39	35	34									34																			
10	58	45	38	33	56	45	38	33	44	37	33	43	37	33	42	36	32	31									31																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9233	9233	9233
5°	8947	9064	9239
10°	8500	8746	9179
15°	7975	8366	9067
20°	7405	7930	8826
25°	6781	7389	8543
30°	6113	6839	8191
35°	5388	6238	7857
40°	4586	5622	7542
45°	3723	4969	7268
50°	3222	4276	6805
55°	2986	3627	6310
60°	2787	3271	5535
65°	2610	3069	4603
70°	2435	2830	3479
75°	2319	2618	2505
80°	2172	2395	2117
85°	1996	2223	1670

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 7268 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.0	5.1
10°-20°	266.1	13.6
20°-30°	363.3	18.6
30°-40°	380.6	19.5
40°-50°	329.5	16.9
50°-60°	247.5	12.7
60°-70°	159.6	8.2
70°-80°	81.9	4.2
80°-90°	24.4	1.3
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°	728.4	37.3
0°-40°	1109.0	56.8
0°-60°	1686.0	86.4
0°-90°	1951.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1951.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1072	1072	1072	1072	1072	
5°	1035	1051	1049	1056	1069	97
15°	895	917	938	981	1017	251
25°	714	741	778	838	899	327
35°	512	542	593	672	747	319
45°	306	337	408	508	597	241
55°	199	206	242	345	420	179
65°	128	130	151	182	226	127
75°	70	78	79	78	75	74
85°	20	24	22	21	17	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1072.2	1072.2	1072.2	1072.2	1072.2
2.5°	1058.7	1072.2	1064.3	1066.5	1069.9
5°	1035.1	1050.8	1048.6	1056.4	1068.8
7.5°	1005.9	1022.7	1026.1	1044.1	1062.0
10°	972.1	991.2	1000.2	1027.2	1049.7
12.5°	935.1	955.3	971.0	1004.7	1037.3
15°	894.6	917.1	938.4	981.1	1017.1
17.5°	853.0	875.5	903.6	950.8	991.2
20°	808.1	832.8	865.4	914.8	963.1
22.5°	762.0	787.8	822.7	876.6	932.8
25°	713.7	740.6	777.7	838.4	899.1
27.5°	665.3	692.3	733.9	797.9	864.2
30°	614.8	642.8	687.8	757.5	823.8
32.5°	564.2	594.5	640.6	714.8	785.6
35°	512.5	541.7	593.4	672.1	747.4
37.5°	460.8	491.1	546.2	630.5	709.2
40°	408.0	439.4	500.1	588.9	670.9
42.5°	355.1	388.9	452.9	546.2	632.7
45°	305.7	337.2	408.0	508.0	596.8
47.5°	268.6	290.0	363.0	470.9	556.3
50°	240.5	251.7	319.2	430.4	508.0
52.5°	219.2	227.0	278.7	386.6	468.6
55°	198.9	205.7	241.6	345.0	420.3
57.5°	180.9	184.3	213.5	304.6	374.2
60°	161.8	165.2	189.9	260.7	321.4
62.5°	145.0	147.2	170.8	219.2	273.1
65°	128.1	130.4	150.6	182.1	225.9
67.5°	112.4	115.8	131.5	148.3	179.8
70°	96.7	103.4	112.4	120.3	138.2
72.5°	83.2	89.9	94.4	96.7	97.8
75°	69.7	77.5	78.7	77.5	75.3
77.5°	56.2	62.9	62.9	60.7	58.4
80°	43.8	49.4	48.3	46.1	42.7
82.5°	32.6	36.0	34.8	32.6	29.2
85°	20.2	23.6	22.5	21.4	16.9
87.5°	10.1	13.5	12.4	11.2	6.7
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	14.15	15.64	14.52	15.95	16.27	17.93	19.41	18.29	19.73	20.04
	3H	15.81	17.14	16.19	17.47	17.83	19.04	20.37	19.42	20.70	21.06
	4H	16.48	17.73	16.88	18.08	18.45	19.33	20.58	19.73	20.93	21.31
	6H	16.99	18.14	17.41	18.51	18.90	19.53	20.68	19.94	21.05	21.44
	8H	17.17	18.27	17.60	18.66	19.06	19.58	20.68	20.01	21.07	21.47
	12H	17.30	18.35	17.73	18.73	19.16	19.61	20.66	20.04	21.04	21.47
4H	2H	14.94	16.18	15.34	16.53	16.91	18.09	19.33	18.49	19.68	20.06
	3H	16.80	17.83	17.21	18.23	18.63	19.40	20.43	19.81	20.83	21.23
	4H	17.61	18.54	18.04	18.95	19.39	19.81	20.74	20.24	21.15	21.59
	6H	18.25	19.06	18.71	19.50	19.97	20.12	20.93	20.58	21.37	21.83
	8H	18.48	19.24	18.95	19.68	20.15	20.22	20.97	20.68	21.41	21.88
	12H	18.65	19.33	19.14	19.81	20.28	20.28	20.95	20.76	21.43	21.90
8H	4H	17.96	18.71	18.42	19.16	19.62	19.94	20.69	20.40	21.14	21.61
	6H	18.75	19.37	19.25	19.86	20.34	20.35	20.97	20.85	21.47	21.94
	8H	19.07	19.63	19.59	20.14	20.63	20.50	21.06	21.02	21.57	22.06
	12H	19.34	19.83	19.85	20.32	20.89	20.63	21.12	21.14	21.61	22.18
12H	4H	17.99	18.66	18.47	19.14	19.61	19.94	20.62	20.43	21.10	21.57
	6H	18.81	19.37	19.33	19.88	20.37	20.37	20.93	20.89	21.44	21.93
	8H	19.20	19.69	19.71	20.19	20.75	20.58	21.07	21.09	21.56	22.13