

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: P1060754

Luminaire Tested: S124RDR-H1195D930-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1060754
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-H1195D930-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: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

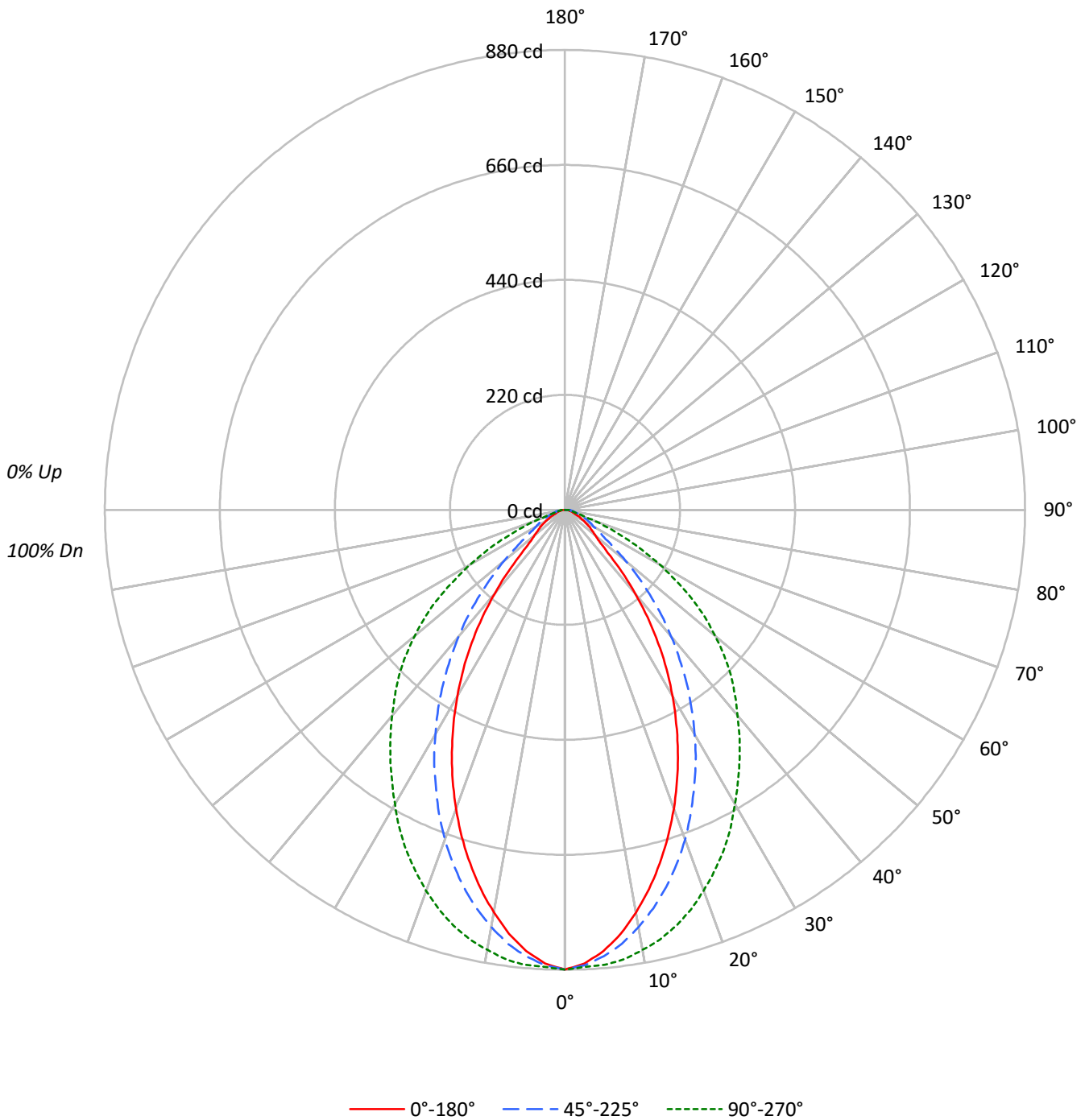
Lumens per Lamp: N/A
Luminaire Lumens: 1237.0 lumens
Efficiency: N/A
Efficacy: 33.9 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.12 / 1.01
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

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	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	47	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°	7575	7575	7575
5°	7324	7411	7556
10°	6840	7085	7477
15°	6246	6665	7344
20°	5580	6153	7107
25°	4860	5551	6827
30°	4096	4930	6466
35°	3270	4271	6118
40°	2353	3548	5775
45°	1418	2794	5465
50°	1019	2024	5022
55°	857	1362	4453
60°	694	1080	3586
65°	548	980	2578
70°	478	818	1380
75°	446	745	669
80°	446	779	610
85°	662	1107	771

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5465 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.8	6.5
10°-20°	211.6	17.1
20°-30°	274.6	22.2
30°-40°	263.9	21.3
40°-50°	195.8	15.8
50°-60°	119.9	9.7
60°-70°	58.3	4.7
70°-80°	22.2	1.8
80°-90°	10.0	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°	566.9	45.8
0°-40°	830.8	67.2
0°-60°	1146.6	92.7
0°-90°	1237.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1237.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	880	880	880	880	880	
5°	847	860	857	865	874	79
15°	701	721	748	792	824	196
25°	512	537	584	659	718	234
35°	311	339	406	502	582	193
45°	116	146	229	350	449	97
55°	57	59	91	205	297	51
65°	27	29	48	76	126	28
75°	13	21	22	20	20	14
85°	7	11	11	10	8	6
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	879.7	879.7	879.7	879.7	879.7
2.5°	868.5	878.6	871.9	874.1	875.2
5°	847.3	859.6	857.3	865.2	874.1
7.5°	818.2	832.7	837.2	852.9	867.4
10°	782.3	800.3	810.3	836.1	855.1
12.5°	743.2	762.2	781.2	815.9	841.7
15°	700.6	720.8	747.6	792.4	823.8
17.5°	655.9	678.3	710.7	764.4	801.4
20°	608.9	632.4	671.5	730.9	775.6
22.5°	560.7	585.4	629.0	695.0	747.6
25°	511.5	537.2	584.2	659.2	718.5
27.5°	461.1	488.0	541.7	621.2	686.1
30°	411.9	437.6	495.8	582.0	650.3
32.5°	361.5	388.4	451.1	541.7	615.6
35°	311.1	339.1	406.3	502.5	582.0
37.5°	259.7	289.9	360.4	464.5	548.4
40°	209.3	238.4	315.6	425.3	513.7
42.5°	160.1	191.4	273.1	386.1	481.3
45°	116.4	145.5	229.4	350.3	448.8
47.5°	87.3	105.2	189.2	316.7	413.0
50°	76.1	79.5	151.1	279.8	374.9
52.5°	66.0	68.3	117.5	239.5	336.9
55°	57.1	59.3	90.7	204.8	296.6
57.5°	48.1	50.4	72.8	171.2	250.7
60°	40.3	42.5	62.7	136.5	208.2
62.5°	33.6	34.7	56.0	104.1	166.8
65°	26.9	29.1	48.1	76.1	126.5
67.5°	22.4	24.6	39.2	52.6	88.4
70°	19.0	24.6	32.5	36.9	54.8
72.5°	15.7	22.4	26.9	25.7	25.7
75°	13.4	21.3	22.4	20.1	20.1
77.5°	11.2	19.0	17.9	16.8	15.7
80°	9.0	15.7	15.7	13.4	12.3
82.5°	7.8	12.3	12.3	12.3	10.1
85°	6.7	11.2	11.2	10.1	7.8
87.5°	4.5	9.0	10.1	9.0	5.6
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	6.85	8.19	7.22	8.50	8.82	15.95	17.29	16.31	17.60	17.91
	3H	7.89	9.08	8.27	9.41	9.78	16.45	17.64	16.83	17.97	18.33
	4H	8.41	9.52	8.81	9.87	10.25	16.46	17.57	16.86	17.92	18.30
	6H	8.86	9.88	9.27	10.25	10.64	16.46	17.48	16.87	17.85	18.24
	8H	9.05	10.01	9.48	10.41	10.81	16.46	17.42	16.89	17.81	18.22
	12H	9.26	10.18	9.69	10.57	11.00	16.46	17.38	16.89	17.76	18.19
4H	2H	7.94	9.05	8.35	9.40	9.78	15.84	16.94	16.24	17.29	17.68
	3H	9.21	10.12	9.63	10.52	10.93	16.41	17.32	16.83	17.72	18.13
	4H	9.92	10.73	10.35	11.15	11.59	16.46	17.27	16.89	17.69	18.13
	6H	10.55	11.25	11.01	11.70	12.16	16.51	17.21	16.97	17.66	18.12
	8H	10.80	11.45	11.26	11.90	12.37	16.53	17.18	17.00	17.63	18.10
	12H	11.07	11.65	11.56	12.13	12.61	16.56	17.14	17.05	17.62	18.10
8H	4H	10.35	11.00	10.82	11.45	11.92	16.41	17.06	16.88	17.51	17.98
	6H	11.23	11.76	11.73	12.26	12.74	16.50	17.04	17.00	17.53	18.01
	8H	11.63	12.11	12.15	12.63	13.12	16.56	17.04	17.08	17.56	18.05
	12H	12.11	12.53	12.62	13.03	13.60	16.66	17.09	17.18	17.58	18.15
12H	4H	10.39	10.97	10.88	11.45	11.92	16.38	16.96	16.87	17.44	17.92
	6H	11.34	11.82	11.86	12.33	12.83	16.48	16.96	17.00	17.48	17.97
	8H	11.85	12.28	12.37	12.77	13.34	16.59	17.01	17.10	17.51	18.08