

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: P1060755

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1060755
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-74)
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-W
Description: DEFINE 4 WHITE 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

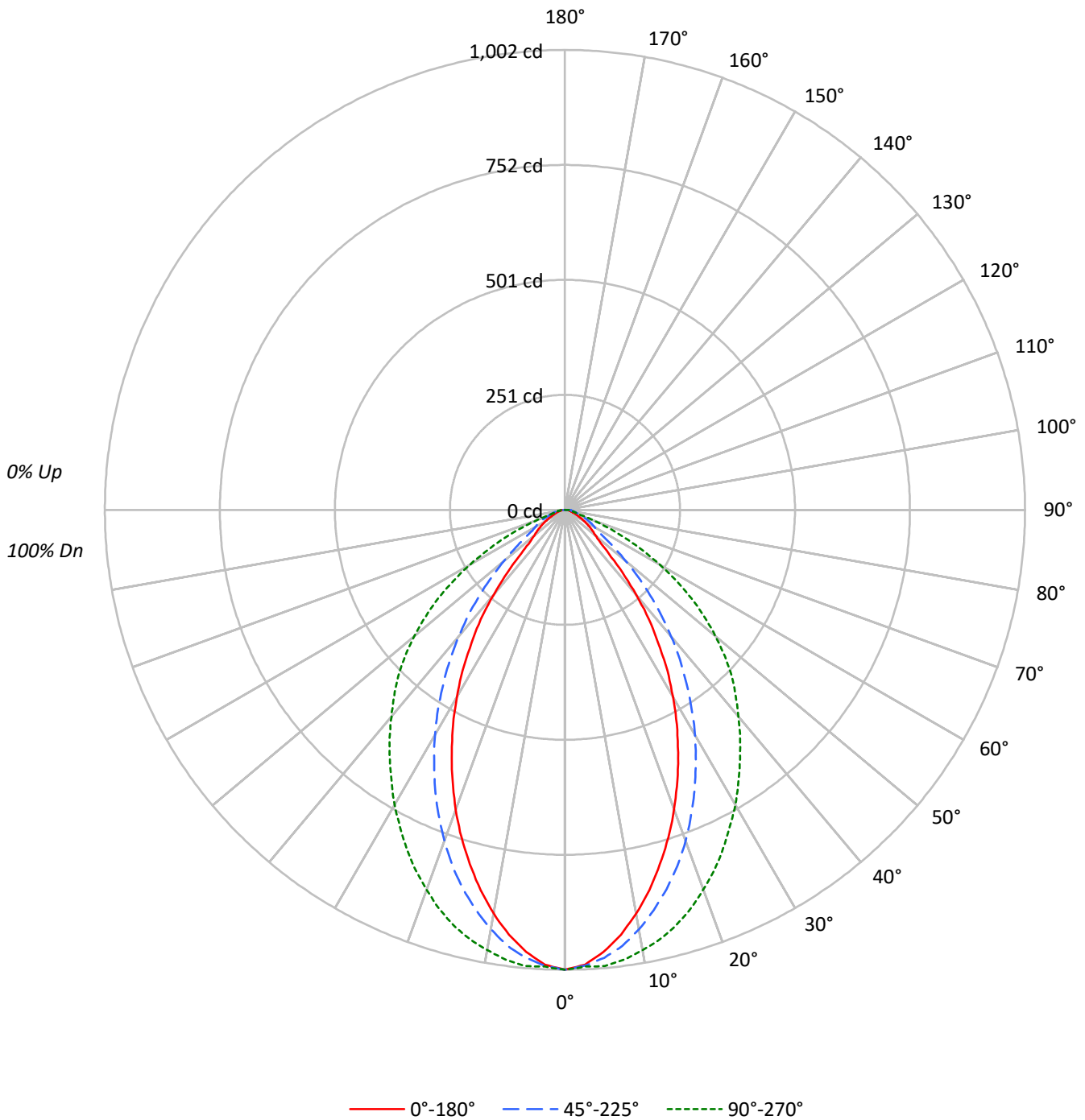
Lumens per Lamp: N/A
Luminaire Lumens: 1418.0 lumens
Efficiency: N/A
Efficacy: 38.8 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.12 / 1.01
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

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	104	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	66	75	70	66	73	68	65	63			63	
5	84	73	66	60	82	72	65	60	70	64	60	69	63	59	67	62	58	57			57	
6	79	67	60	54	77	67	59	54	65	59	54	63	58	53	62	57	53	51			51	
7	74	62	55	49	72	61	54	49	60	54	49	59	53	49	57	52	48	47			47	
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	53	48	44	43			43	
9	65	54	46	42	64	53	46	41	52	46	41	51	45	41	50	45	41	39			39	
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	36			36	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8627	8627	8627
5°	8361	8467	8622
10°	7811	8114	8516
15°	7126	7625	8353
20°	6371	7037	8073
25°	5541	6360	7744
30°	4675	5632	7380
35°	3718	4848	6990
40°	2706	4039	6606
45°	1636	3189	6257
50°	1170	2310	5728
55°	991	1563	5059
60°	809	1273	4087
65°	638	1141	2942
70°	536	959	1551
75°	486	895	782
80°	501	888	779
85°	662	1324	889

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 6257 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.2	6.5
10°-20°	241.7	17.0
20°-30°	313.5	22.1
30°-40°	301.8	21.3
40°-50°	224.5	15.8
50°-60°	138.1	9.7
60°-70°	67.8	4.8
70°-80°	26.4	1.9
80°-90°	12.1	0.9
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°	647.4	45.7
0°-40°	949.2	66.9
0°-60°	1311.7	92.5
0°-90°	1418.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1418.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1002	1002	1002	1002	1002	
5°	967	982	980	988	997	90
15°	799	825	855	907	937	223
25°	583	615	669	753	815	267
35°	354	387	461	576	665	221
45°	134	167	262	404	514	112
55°	66	68	104	237	337	59
65°	31	34	56	90	144	32
75°	15	26	27	25	24	16
85°	7	12	13	13	9	7
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1001.9	1001.9	1001.9	1001.9	1001.9
2.5°	991.8	1003.0	994.1	995.2	996.3
5°	967.2	981.8	979.5	988.5	997.4
7.5°	933.6	950.4	958.2	976.2	988.5
10°	893.3	912.3	928.0	957.1	973.9
12.5°	848.5	870.9	893.3	932.5	958.2
15°	799.3	825.0	855.3	906.7	937.0
17.5°	748.9	774.7	813.8	873.2	911.2
20°	695.2	723.2	767.9	834.0	881.0
22.5°	639.2	669.4	718.7	793.7	849.7
25°	583.2	614.6	669.4	753.4	815.0
27.5°	527.3	557.5	616.8	710.8	778.0
30°	470.2	501.5	566.4	664.9	742.2
32.5°	415.3	444.4	513.8	621.3	703.0
35°	353.7	387.3	461.2	576.5	664.9
37.5°	301.1	331.4	410.8	531.7	626.9
40°	240.7	274.3	359.3	488.1	587.7
42.5°	184.7	218.3	310.1	444.4	550.8
45°	134.3	166.8	261.9	404.1	513.8
47.5°	101.9	120.9	214.9	364.9	472.4
50°	87.3	92.9	172.4	322.4	427.6
52.5°	77.2	79.5	134.3	279.9	382.8
55°	66.0	68.3	104.1	237.3	337.0
57.5°	56.0	57.1	84.0	197.0	287.7
60°	47.0	48.1	73.9	157.8	237.3
62.5°	39.2	40.3	66.0	122.0	189.2
65°	31.3	33.6	56.0	89.6	144.4
67.5°	25.7	30.2	47.0	62.7	100.7
70°	21.3	29.1	38.1	43.7	61.6
72.5°	17.9	26.9	32.5	31.3	30.2
75°	14.6	25.7	26.9	24.6	23.5
77.5°	12.3	22.4	22.4	20.1	19.0
80°	10.1	17.9	17.9	17.9	15.7
82.5°	9.0	14.6	15.7	15.7	12.3
85°	6.7	12.3	13.4	13.4	9.0
87.5°	4.5	11.2	12.3	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	7.27	8.61	7.64	8.93	9.24	16.44	17.78	16.80	18.09	18.41
	3H	8.38	9.57	8.76	9.90	10.27	16.95	18.14	17.33	18.47	18.83
	4H	8.90	10.01	9.30	10.36	10.74	16.97	18.08	17.37	18.43	18.81
	6H	9.33	10.36	9.75	10.73	11.12	16.98	18.00	17.39	18.37	18.76
	8H	9.53	10.49	9.96	10.88	11.29	16.98	17.95	17.41	18.34	18.74
	12H	9.71	10.63	10.14	11.02	11.45	16.98	17.91	17.42	18.29	18.72
4H	2H	8.42	9.53	8.82	9.88	10.26	16.33	17.44	16.73	17.79	18.17
	3H	9.76	10.67	10.17	11.07	11.47	16.92	17.83	17.33	18.23	18.64
	4H	10.49	11.30	10.93	11.72	12.17	16.98	17.79	17.41	18.21	18.65
	6H	11.10	11.80	11.56	12.25	12.72	17.05	17.76	17.52	18.20	18.67
	8H	11.35	12.00	11.81	12.45	12.92	17.08	17.74	17.55	18.19	18.66
	12H	11.58	12.16	12.07	12.65	13.12	17.13	17.71	17.61	18.19	18.66
8H	4H	10.96	11.62	11.43	12.06	12.53	16.94	17.59	17.41	18.04	18.51
	6H	11.81	12.35	12.31	12.84	13.32	17.06	17.60	17.57	18.10	18.58
	8H	12.22	12.70	12.74	13.22	13.71	17.15	17.63	17.67	18.15	18.64
	12H	12.64	13.07	13.15	13.56	14.13	17.27	17.70	17.78	18.19	18.76
12H	4H	11.01	11.59	11.50	12.08	12.55	16.91	17.49	17.40	17.97	18.45
	6H	11.94	12.42	12.46	12.94	13.43	17.05	17.53	17.57	18.04	18.54
	8H	12.47	12.89	12.98	13.39	13.96	17.18	17.61	17.69	18.10	18.67