

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: P1060743

Luminaire Tested: S124RDRP-H1195D927-X4F0-XX-UDD-BVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1060743
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-75)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDRP-H1195D927-X4F0-XX-UDD-BVL-W
Description: DEFINE 4 WHITE REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE
LOUVER WITH DIFFUSER
HIGH PERFORMANCE LIGHT ENGINE
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

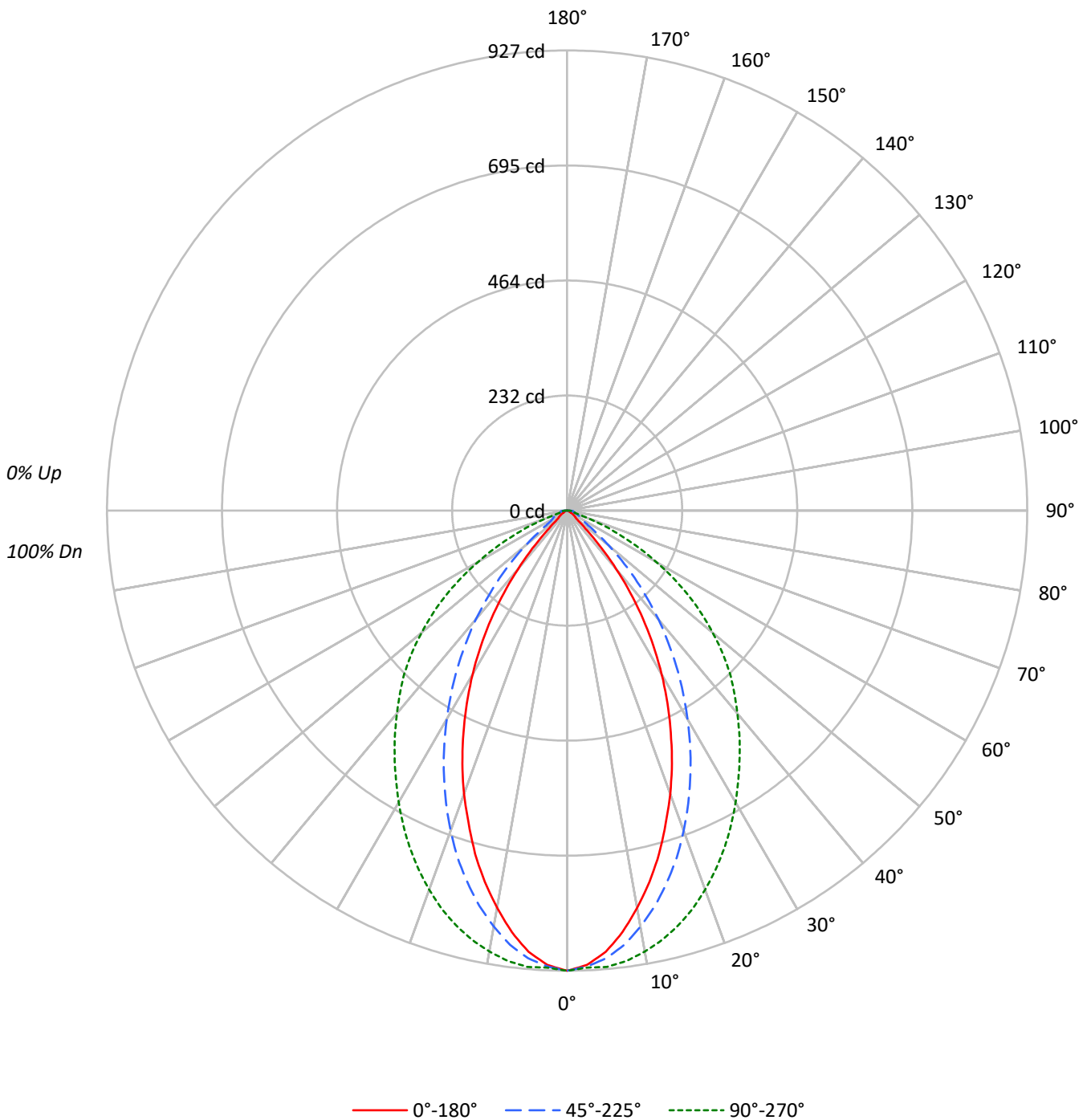
Lumens per Lamp: N/A
Luminaire Lumens: 1168.3 lumens
Efficiency: N/A
Efficacy: 32.0 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.11 / 0.96
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 36.5
Input Voltage (V): 120
Input Current (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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74	72
4	91	82	75	70	89	81	75	70	79	73	69	76	72	68	74	70	67	65
5	86	75	68	63	84	74	68	63	72	67	62	71	66	62	69	65	61	59
6	80	70	62	57	79	69	62	57	67	61	56	66	60	56	64	59	56	54
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49
8	71	60	53	48	70	59	52	48	58	52	48	57	51	47	56	51	47	45
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42
10	63	52	45	41	62	52	45	41	51	45	41	50	44	41	49	44	40	39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7982	7982	7982
5°	7711	7825	7975
10°	7106	7439	7886
15°	6382	6915	7710
20°	5563	6291	7447
25°	4693	5582	7122
30°	3786	4824	6750
35°	2802	4037	6370
40°	1737	3216	5993
45°	689	2345	5644
50°	305	1472	5131
55°	245	767	4492
60°	169	580	3579
65°	110	577	2461
70°	111	521	1151
75°	146	506	506
80°	218	595	595
85°	435	1186	860

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5644 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.0	7.3
10°-20°	219.5	18.8
20°-30°	277.0	23.7
30°-40°	254.1	21.8
40°-50°	173.1	14.8
50°-60°	94.3	8.1
60°-70°	40.8	3.5
70°-80°	14.9	1.3
80°-90°	9.6	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°	581.5	49.8
0°-40°	835.6	71.5
0°-60°	1103.0	94.4
0°-90°	1168.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1168.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	927	927	927	927	927	
5°	892	904	905	915	923	83
15°	716	741	776	831	865	199
25°	494	529	588	681	750	226
35°	266	306	384	506	606	165
45°	57	95	193	342	464	53
55°	16	17	51	188	299	15
65°	5	8	28	59	121	6
75°	4	14	15	15	15	5
85°	4	10	12	12	9	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	926.9	926.9	926.9	926.9	926.9
2.5°	916.1	926.9	919.3	921.5	921.5
5°	892.1	904.1	905.2	915.0	922.6
7.5°	856.2	873.6	882.3	901.9	915.0
10°	812.7	833.4	850.8	884.5	901.9
12.5°	765.9	789.9	816.0	860.6	885.6
15°	715.9	740.9	775.7	831.2	864.9
17.5°	660.4	690.9	733.3	799.6	841.0
20°	607.1	637.5	686.5	761.6	812.7
22.5°	551.6	583.1	637.5	721.3	782.2
25°	493.9	528.7	587.5	681.1	749.6
27.5°	437.4	474.3	536.4	638.6	714.8
30°	380.8	417.8	485.2	595.1	678.9
32.5°	323.1	361.2	434.1	549.4	641.9
35°	266.5	305.7	384.0	505.9	606.0
37.5°	208.9	250.2	334.0	463.5	570.1
40°	154.5	195.8	286.1	421.0	533.1
42.5°	103.4	144.7	237.2	379.7	498.3
45°	56.6	94.7	192.6	341.6	463.5
47.5°	30.5	52.2	149.0	304.6	424.3
50°	22.8	28.3	109.9	265.5	383.0
52.5°	19.6	21.8	76.2	224.1	341.6
55°	16.3	17.4	51.1	188.2	299.2
57.5°	13.1	14.1	38.1	152.3	253.5
60°	9.8	12.0	33.7	117.5	207.8
62.5°	7.6	9.8	31.6	85.9	164.3
65°	5.4	7.6	28.3	58.7	120.8
67.5°	5.4	8.7	23.9	38.1	81.6
70°	4.4	12.0	20.7	25.0	45.7
72.5°	4.4	13.1	17.4	17.4	17.4
75°	4.4	14.1	15.2	15.2	15.2
77.5°	4.4	13.1	14.1	13.1	13.1
80°	4.4	12.0	12.0	12.0	12.0
82.5°	4.4	10.9	12.0	12.0	9.8
85°	4.4	9.8	12.0	12.0	8.7
87.5°	3.3	9.8	10.9	10.9	6.5
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	0.00	0.00	0.00	0.00	0.14	15.63	16.90	15.99	17.22	17.53
	3H	0.00	0.81	0.06	1.14	1.50	16.00	17.13	16.38	17.46	17.83
	4H	0.90	1.96	1.31	2.31	2.69	15.98	17.03	16.38	17.38	17.77
	6H	2.10	3.07	2.52	3.44	3.83	15.97	16.93	16.38	17.30	17.70
	8H	2.70	3.61	3.13	4.00	4.41	15.97	16.88	16.40	17.27	17.68
	12H	3.37	4.25	3.81	4.63	5.06	15.98	16.85	16.41	17.24	17.67
4H	2H	1.87	2.92	2.27	3.27	3.66	15.44	16.49	15.84	16.84	17.22
	3H	3.46	4.32	3.87	4.72	5.13	15.86	16.71	16.27	17.12	17.52
	4H	4.75	5.52	5.18	5.94	6.38	15.85	16.62	16.29	17.04	17.49
	6H	5.89	6.55	6.35	7.00	7.46	15.89	16.56	16.36	17.00	17.47
	8H	6.40	7.02	6.87	7.47	7.94	15.92	16.54	16.39	16.99	17.46
	12H	6.96	7.50	7.44	7.99	8.46	15.99	16.53	16.47	17.02	17.49
8H	4H	5.83	6.45	6.30	6.90	7.37	15.76	16.38	16.23	16.83	17.30
	6H	7.38	7.89	7.89	8.39	8.87	15.84	16.35	16.35	16.85	17.33
	8H	8.20	8.65	8.72	9.17	9.66	15.93	16.38	16.45	16.90	17.39
	12H	9.03	9.43	9.55	9.93	10.50	16.10	16.50	16.61	17.00	17.57
12H	4H	6.02	6.57	6.51	7.05	7.53	15.73	16.27	16.21	16.76	17.23
	6H	7.74	8.20	8.26	8.71	9.21	15.82	16.27	16.34	16.79	17.28
	8H	8.76	9.16	9.27	9.65	10.23	15.95	16.36	16.47	16.85	17.42