

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: P1060356

Luminaire Tested: S124RDRP-S1195D935-X4F0-XX-UDD-BVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1060356
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-S1195D935-X4F0-XX-UDD-BVL-W
Description: DEFINE 4 WHITE REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

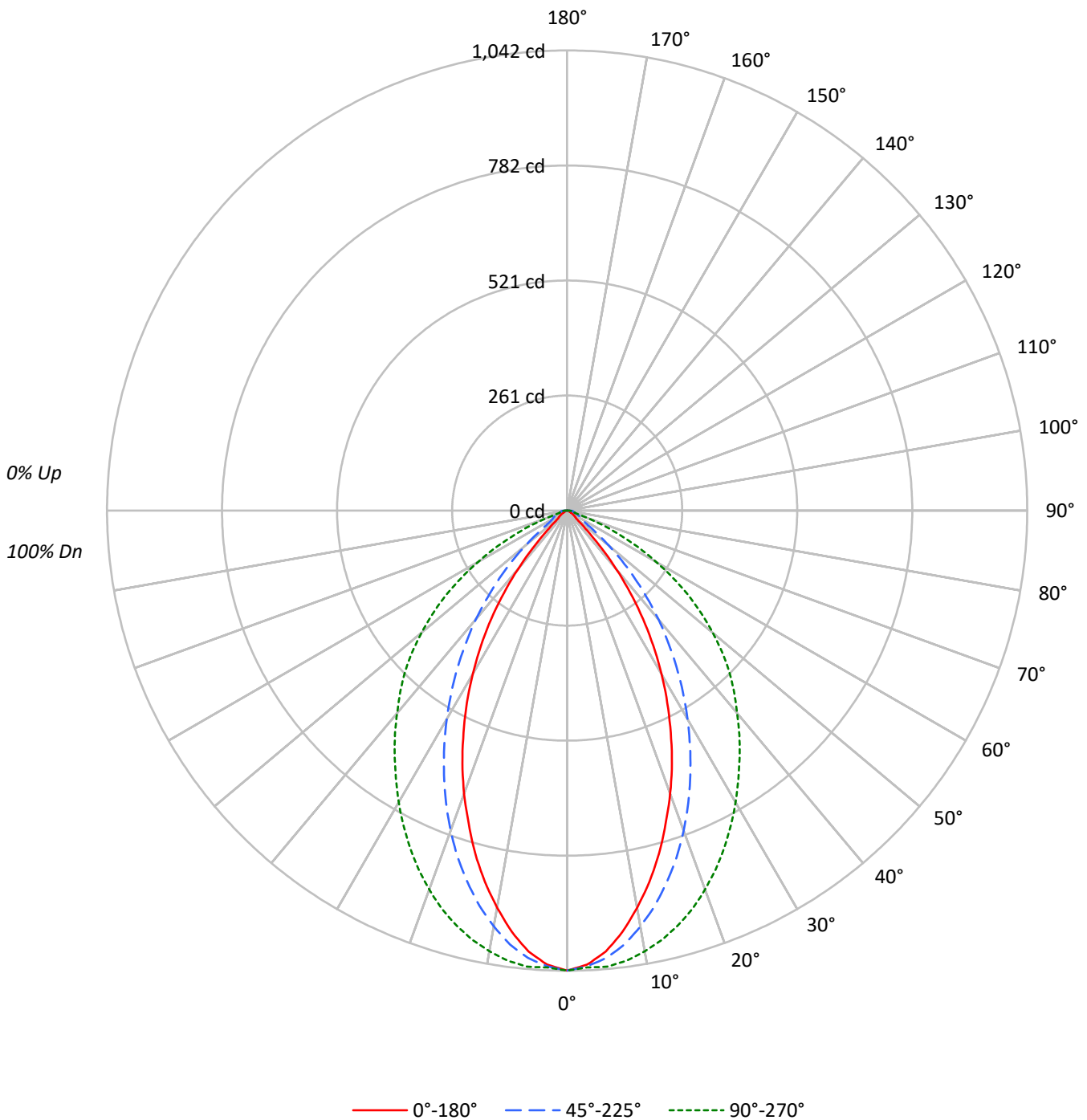
Lumens per Lamp: N/A
Luminaire Lumens: 1312.6 lumens
Efficiency: N/A
Efficacy: 31.4 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.11 / 0.96
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	8968	8968	8968
5°	8665	8791	8960
10°	7984	8358	8861
15°	7170	7770	8663
20°	6251	7068	8367
25°	5273	6272	8002
30°	4254	5421	7585
35°	3148	4536	7158
40°	1951	3614	6733
45°	775	2635	6341
50°	344	1654	5765
55°	275	863	5047
60°	189	653	4021
65°	124	648	2765
70°	123	584	1292
75°	163	569	569
80°	243	664	664
85°	484	1324	968

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 6341 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.5	7.3
10°-20°	246.6	18.8
20°-30°	311.2	23.7
30°-40°	285.5	21.8
40°-50°	194.5	14.8
50°-60°	105.9	8.1
60°-70°	45.8	3.5
70°-80°	16.7	1.3
80°-90°	10.7	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°	653.3	49.8
0°-40°	938.9	71.5
0°-60°	1239.3	94.4
0°-90°	1312.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1312.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1042	1042	1042	1042	1042	
5°	1002	1016	1017	1028	1037	93
15°	804	832	872	934	972	224
25°	555	594	660	765	842	254
35°	300	344	432	568	681	185
45°	64	106	216	384	521	59
55°	18	20	58	212	336	16
65°	6	9	32	66	136	7
75°	5	16	17	17	17	5
85°	5	11	13	13	10	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1041.5	1041.5	1041.5	1041.5	1041.5
2.5°	1029.3	1041.5	1032.9	1035.4	1035.4
5°	1002.4	1015.8	1017.0	1028.0	1036.6
7.5°	962.0	981.6	991.4	1013.4	1028.0
10°	913.1	936.4	955.9	993.8	1013.4
12.5°	860.6	887.5	916.8	966.9	995.0
15°	804.3	832.5	871.6	933.9	971.8
17.5°	742.0	776.2	823.9	898.5	944.9
20°	682.1	716.3	771.3	855.7	913.1
22.5°	619.8	655.2	716.3	810.5	878.9
25°	555.0	594.1	660.1	765.2	842.2
27.5°	491.4	533.0	602.6	717.5	803.1
30°	427.8	469.4	545.2	668.7	762.8
32.5°	363.1	405.8	487.7	617.3	721.2
35°	299.5	343.5	431.5	568.4	680.9
37.5°	234.7	281.2	375.3	520.7	640.5
40°	173.6	220.0	321.5	473.1	599.0
42.5°	116.1	162.6	266.5	426.6	559.9
45°	63.6	106.3	216.4	383.8	520.7
47.5°	34.2	58.7	167.5	342.3	476.7
50°	25.7	31.8	123.5	298.3	430.3
52.5°	22.0	24.4	85.6	251.8	383.8
55°	18.3	19.6	57.5	211.5	336.2
57.5°	14.7	15.9	42.8	171.1	284.8
60°	11.0	13.4	37.9	132.0	233.5
62.5°	8.6	11.0	35.4	96.6	184.6
65°	6.1	8.6	31.8	66.0	135.7
67.5°	6.1	9.8	26.9	42.8	91.7
70°	4.9	13.4	23.2	28.1	51.3
72.5°	4.9	14.7	19.6	19.6	19.6
75°	4.9	15.9	17.1	17.1	17.1
77.5°	4.9	14.7	15.9	14.7	14.7
80°	4.9	13.4	13.4	13.4	13.4
82.5°	4.9	12.2	13.4	13.4	11.0
85°	4.9	11.0	13.4	13.4	9.8
87.5°	3.7	11.0	12.2	12.2	7.3
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	0.25	0.56	16.03	17.31	16.39	17.62	17.94
	3H	0.09	1.22	0.47	1.55	1.91	16.41	17.54	16.79	17.87	18.23
	4H	1.31	2.36	1.71	2.71	3.10	16.38	17.44	16.79	17.79	18.17
	6H	2.49	3.46	2.91	3.83	4.22	16.37	17.34	16.79	17.71	18.10
	8H	3.08	4.00	3.51	4.39	4.79	16.37	17.29	16.80	17.68	18.08
	12H	3.75	4.63	4.19	5.01	5.44	16.38	17.26	16.82	17.64	18.07
4H	2H	2.28	3.33	2.68	3.68	4.07	15.84	16.89	16.24	17.24	17.63
	3H	3.86	4.72	4.27	5.12	5.53	16.26	17.12	16.67	17.52	17.93
	4H	5.16	5.92	5.59	6.34	6.79	16.26	17.03	16.69	17.45	17.89
	6H	6.28	6.95	6.75	7.39	7.86	16.30	16.96	16.76	17.41	17.87
	8H	6.79	7.41	7.26	7.86	8.33	16.33	16.94	16.80	17.39	17.86
	12H	7.34	7.89	7.83	8.37	8.85	16.39	16.94	16.88	17.42	17.89
8H	4H	6.24	6.86	6.71	7.31	7.78	16.17	16.79	16.64	17.23	17.71
	6H	7.78	8.28	8.28	8.78	9.26	16.25	16.75	16.75	17.25	17.73
	8H	8.58	9.04	9.11	9.56	10.05	16.33	16.78	16.85	17.30	17.79
	12H	9.42	9.82	9.93	10.32	10.89	16.50	16.90	17.01	17.40	17.97
12H	4H	6.43	6.97	6.92	7.46	7.93	16.13	16.68	16.62	17.16	17.64
	6H	8.13	8.59	8.66	9.10	9.60	16.22	16.67	16.74	17.19	17.68
	8H	9.14	9.54	9.66	10.04	10.61	16.36	16.76	16.87	17.25	17.83