

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: P1060591

Luminaire Tested: S124RDRP-S795D930-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1060591
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-38)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDRP-S795D930-X4F0-XX-UDD-SVL-B
Description: DEFINE 4 BLACK REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

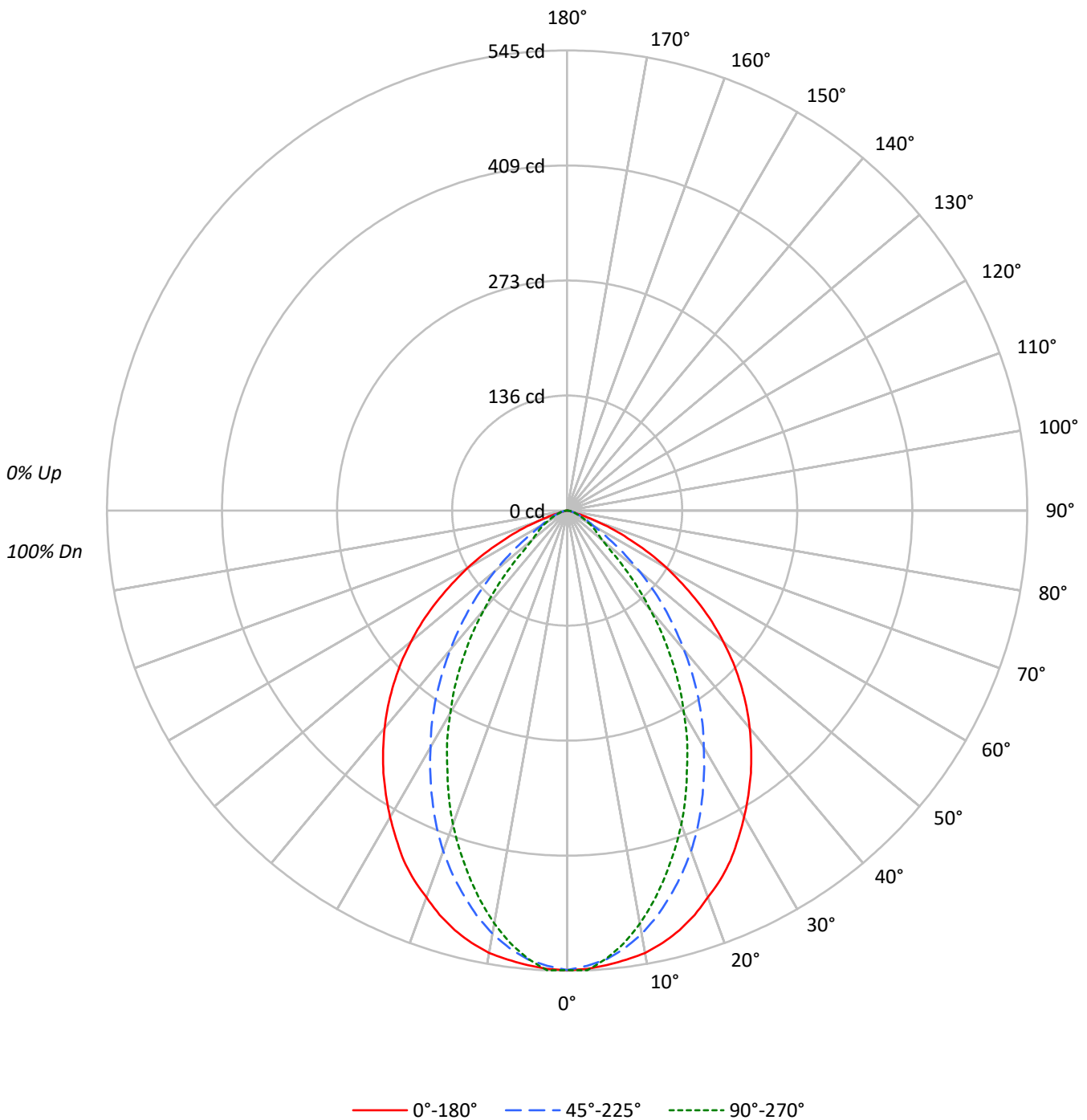
Lumens per Lamp: N/A
Luminaire Lumens: 802.4 lumens
Efficiency: N/A
Efficacy: 31.1 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 0.87 / 1.02
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 25.8
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	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	112	108	105	102	109	106	103	101	102	100	97	98	96	94	95	93	92					90				
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82					80				
3	97	89	82	77	95	87	81	76	84	79	75	82	78	74	79	76	73					71				
4	90	81	74	68	88	79	73	68	77	71	67	75	70	66	73	69	65					63				
5	84	74	66	61	82	73	66	60	71	65	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	48					47				
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	54	48	44					43				
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41					39				
10	62	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38					36				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4686	4686	4686
5°	4671	4612	4605
10°	4652	4451	4343
15°	4585	4210	3997
20°	4467	3933	3624
25°	4348	3591	3190
30°	4169	3217	2751
35°	3988	2845	2273
40°	3783	2421	1723
45°	3538	1979	1157
50°	3234	1499	719
55°	2842	989	610
60°	2349	608	501
65°	1701	469	405
70°	927	347	310
75°	203	256	279
80°	154	188	228
85°	148	148	227

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3538 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.4	6.3
10°-20°	133.9	16.7
20°-30°	177.4	22.1
30°-40°	176.1	21.9
40°-50°	135.5	16.9
50°-60°	80.8	10.1
60°-70°	36.7	4.6
70°-80°	9.5	1.2
80°-90°	2.1	0.3
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°	361.7	45.1
0°-40°	537.8	67.0
0°-60°	754.1	94.0
0°-90°	802.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	802.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	544	544	544	544	544	
5°	540	541	534	534	533	51
15°	514	501	472	456	448	145
25°	458	425	378	346	336	210
35°	379	332	271	229	216	237
45°	290	234	162	113	95	224
55°	189	135	66	41	41	169
65°	84	50	23	20	20	84
75°	6	8	8	8	8	13
85°	2	2	2	2	2	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	544.2	544.2	544.2	544.2	544.2
2.5°	543.4	544.2	539.6	543.4	545.0
5°	540.4	541.1	533.5	533.5	532.7
7.5°	536.5	535.0	522.8	518.2	516.6
10°	532.0	526.6	509.0	499.8	496.7
12.5°	524.3	515.9	492.1	479.1	473.7
15°	514.3	501.3	472.2	456.1	448.4
17.5°	502.1	486.0	451.5	430.8	422.3
20°	487.5	466.0	429.2	403.2	395.5
22.5°	473.7	446.9	404.7	374.8	366.4
25°	457.6	424.6	377.9	346.5	335.7
27.5°	438.4	403.2	351.1	318.9	308.1
30°	419.3	380.2	323.5	289.7	276.7
32.5°	399.3	356.4	298.2	259.8	247.6
35°	379.4	331.9	270.6	229.2	216.2
37.5°	358.0	307.4	243.0	200.1	185.5
40°	336.5	283.6	215.4	171.7	153.3
42.5°	314.3	259.1	188.6	142.6	124.2
45°	290.5	233.8	162.5	113.4	95.0
47.5°	266.7	210.0	136.4	85.1	68.2
50°	241.4	184.7	111.9	62.1	53.7
52.5°	216.2	160.2	87.4	48.3	46.0
55°	189.3	134.9	65.9	41.4	40.6
57.5°	161.7	111.9	47.5	36.0	34.5
60°	136.4	90.4	35.3	30.7	29.1
62.5°	110.4	68.2	29.1	25.3	23.8
65°	83.5	49.8	23.0	19.9	19.9
67.5°	60.6	33.7	18.4	16.1	15.3
70°	36.8	20.7	13.8	13.0	12.3
72.5°	18.4	12.3	10.7	10.0	10.0
75°	6.1	7.7	7.7	8.4	8.4
77.5°	4.6	5.4	5.4	6.1	6.1
80°	3.1	3.8	3.8	4.6	4.6
82.5°	2.3	2.3	3.1	3.1	3.8
85°	1.5	1.5	1.5	2.3	2.3
87.5°	0.8	0.8	0.8	1.5	1.5
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	14.48	15.82	14.85	16.13	16.45	6.03	7.37	6.40	7.68	7.99
	3H	14.99	16.17	15.37	16.50	16.87	6.85	8.03	7.23	8.36	8.72
	4H	14.96	16.06	15.36	16.41	16.79	7.13	8.23	7.53	8.58	8.96
	6H	14.90	15.90	15.31	16.27	16.67	7.30	8.31	7.72	8.68	9.07
	8H	14.86	15.81	15.29	16.20	16.61	7.37	8.32	7.80	8.71	9.11
	12H	14.82	15.73	15.25	16.11	16.54	7.41	8.32	7.84	8.70	9.13
4H	2H	14.33	15.43	14.73	15.78	16.16	6.47	7.57	6.88	7.92	8.31
	3H	14.88	15.77	15.29	16.18	16.58	7.44	8.33	7.85	8.74	9.14
	4H	14.85	15.65	15.28	16.07	16.51	7.80	8.60	8.24	9.02	9.46
	6H	14.80	15.48	15.26	15.93	16.40	8.05	8.74	8.51	9.18	9.65
	8H	14.75	15.39	15.22	15.84	16.31	8.14	8.78	8.61	9.22	9.70
	12H	14.71	15.28	15.20	15.76	16.23	8.21	8.78	8.70	9.26	9.74
8H	4H	14.74	15.38	15.21	15.83	16.30	7.89	8.53	8.36	8.98	9.45
	6H	14.68	15.20	15.18	15.70	16.18	8.20	8.72	8.70	9.22	9.70
	8H	14.63	15.10	15.15	15.61	16.11	8.33	8.80	8.85	9.31	9.81
	12H	14.60	15.01	15.11	15.51	16.08	8.47	8.88	8.98	9.38	9.95
12H	4H	14.70	15.26	15.18	15.74	16.22	7.86	8.43	8.35	8.91	9.38
	6H	14.62	15.09	15.14	15.61	16.10	8.18	8.65	8.70	9.16	9.66
	8H	14.60	15.01	15.11	15.51	16.08	8.35	8.76	8.87	9.26	9.83