

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: P1060579

Luminaire Tested: S124RDRP-S795D927-X4F0-XX-UDD-BVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1060579
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-39)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDRP-S795D927-X4F0-XX-UDD-BVL-B
Description: DEFINE 4 BLACK REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

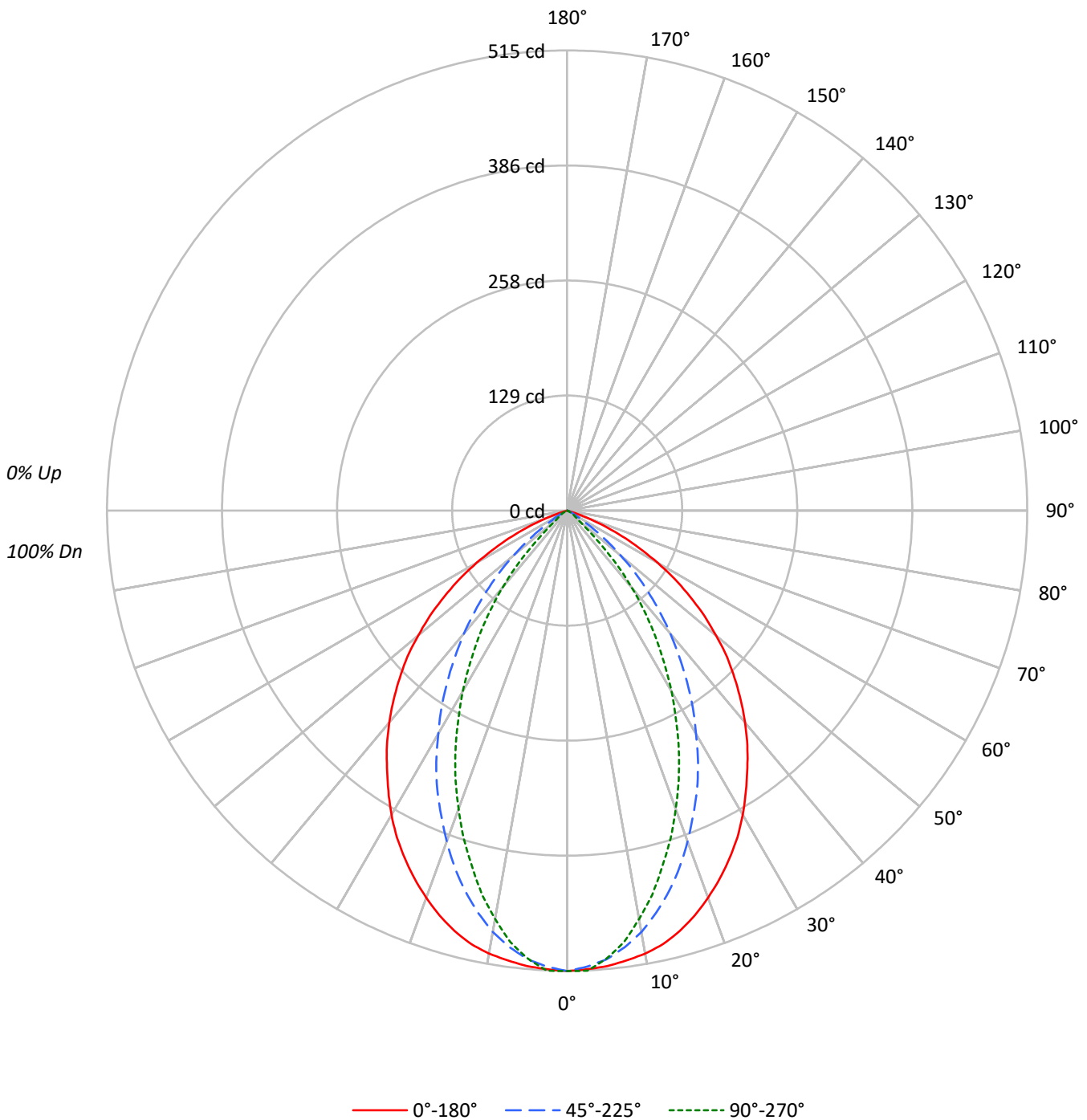
Lumens per Lamp: N/A
Luminaire Lumens: 673.0 lumens
Efficiency: N/A
Efficacy: 26.1 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 0.83 / 0.98
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	96	94	93	91
2	105	99	95	90	103	98	93	89	94	91	87	91	88	86	88	86	84	82
3	98	91	85	80	96	89	84	79	86	82	78	84	80	77	82	78	75	74
4	92	83	76	71	90	82	76	71	79	74	70	77	73	69	75	71	68	66
5	86	76	69	64	84	75	69	64	73	67	63	71	66	62	70	65	62	60
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	56	55
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	50
8	71	60	53	48	70	60	53	48	58	52	48	57	52	48	56	51	47	46
9	67	56	49	44	66	56	49	44	54	48	44	54	48	44	53	48	44	42
10	64	52	46	41	63	52	45	41	51	45	41	50	45	41	49	44	41	39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4438	4438	4438
5°	4423	4358	4352
10°	4403	4187	4057
15°	4342	3931	3672
20°	4225	3611	3256
25°	4083	3269	2810
30°	3910	2866	2326
35°	3695	2459	1808
40°	3482	2018	1265
45°	3228	1551	626
50°	2914	1048	209
55°	2516	536	146
60°	2013	193	103
65°	1381	106	45
70°	619	55	38
75°	0	23	23
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3228 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.6	7.1
10°-20°	124.8	18.5
20°-30°	161.5	24.0
30°-40°	153.5	22.8
40°-50°	108.7	16.1
50°-60°	55.8	8.3
60°-70°	19.5	2.9
70°-80°	1.7	0.2
80°-90°	0.0	0.0
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°	333.9	49.6
0°-40°	487.3	72.4
0°-60°	651.8	96.9
0°-90°	673.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	673.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	515	515	515	515	515	
5°	512	512	504	504	504	49
15°	487	472	441	420	412	137
25°	430	396	344	308	296	198
35°	352	300	234	188	172	220
45°	265	204	127	73	51	204
55°	168	110	36	10	10	150
65°	68	33	5	3	2	67
75°	0	1	1	1	1	6
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	515.4	515.4	515.4	515.4	515.4
2.5°	513.9	515.4	510.9	514.6	515.4
5°	511.7	512.4	504.2	504.2	503.5
7.5°	507.9	506.4	493.0	487.8	487.1
10°	503.5	498.3	478.9	467.7	464.0
12.5°	496.8	487.1	461.0	444.6	440.2
15°	487.1	472.2	440.9	420.1	411.9
17.5°	475.2	455.8	418.6	393.2	385.0
20°	461.0	436.4	394.0	365.7	355.3
22.5°	446.1	417.8	368.7	336.6	326.2
25°	429.7	396.2	344.1	307.6	295.7
27.5°	412.6	373.1	317.3	279.3	263.7
30°	393.2	350.0	288.2	248.8	233.9
32.5°	372.4	324.7	262.2	219.7	201.8
35°	351.5	300.1	233.9	188.4	172.0
37.5°	331.4	277.1	205.6	157.9	142.3
40°	309.8	251.7	179.5	130.3	112.5
42.5°	287.5	227.2	152.7	102.0	82.7
45°	265.1	204.1	127.4	73.0	51.4
47.5°	242.8	179.5	102.8	46.2	27.6
50°	217.5	155.7	78.2	24.6	15.6
52.5°	193.6	133.3	55.9	14.2	11.9
55°	167.6	110.2	35.7	10.4	9.7
57.5°	143.0	87.9	20.1	8.2	7.4
60°	116.9	67.8	11.2	6.7	6.0
62.5°	90.9	49.2	7.4	4.5	3.7
65°	67.8	32.8	5.2	3.0	2.2
67.5°	44.7	18.6	3.7	1.5	1.5
70°	24.6	8.9	2.2	1.5	1.5
72.5°	8.9	3.0	1.5	0.7	0.7
75°	0.0	0.7	0.7	0.7	0.7
77.5°	0.0	0.0	0.0	0.0	0.7
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
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	13.71	14.96	14.07	15.28	15.59	0.00	0.00	0.00	0.00	0.00
	3H	13.98	15.09	14.36	15.42	15.79	0.00	0.00	0.00	0.00	0.00
	4H	13.91	14.93	14.31	15.28	15.67	0.00	0.00	0.00	0.00	0.00
	6H	13.82	14.76	14.24	15.13	15.53	0.00	0.00	0.00	0.00	0.00
	8H	13.78	14.66	14.21	15.05	15.46	0.00	0.00	0.00	0.00	0.00
	12H	13.73	14.58	14.16	14.96	15.39	0.00	0.00	0.00	0.00	0.00
4H	2H	13.48	14.51	13.88	14.86	15.24	0.00	0.00	0.00	0.00	0.00
	3H	13.76	14.59	14.18	15.00	15.40	0.00	0.00	0.00	0.00	0.00
	4H	13.67	14.41	14.11	14.83	15.27	0.00	0.00	0.00	0.00	0.00
	6H	13.58	14.21	14.05	14.66	15.13	0.00	0.00	0.00	0.00	0.00
	8H	13.52	14.11	13.99	14.56	15.03	0.00	0.00	0.00	0.00	0.00
	12H	13.47	13.99	13.96	14.47	14.95	0.00	0.00	0.00	0.00	0.00
8H	4H	13.52	14.11	13.99	14.56	15.03	0.00	0.00	0.00	0.00	0.00
	6H	13.41	13.89	13.92	14.39	14.87	0.00	0.00	0.00	0.00	0.00
	8H	13.35	13.77	13.87	14.29	14.79	0.00	0.00	0.00	0.00	0.00
	12H	13.30	13.67	13.81	14.17	14.74	0.00	0.00	0.00	0.00	0.00
12H	4H	13.47	13.99	13.96	14.47	14.95	0.00	0.00	0.00	0.00	0.00
	6H	13.35	13.77	13.87	14.29	14.79	0.00	0.00	0.00	0.00	0.00
	8H	13.30	13.67	13.81	14.17	14.74	0.00	0.00	0.00	0.00	0.00