

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: P1060588

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1060588
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-S795D930-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: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

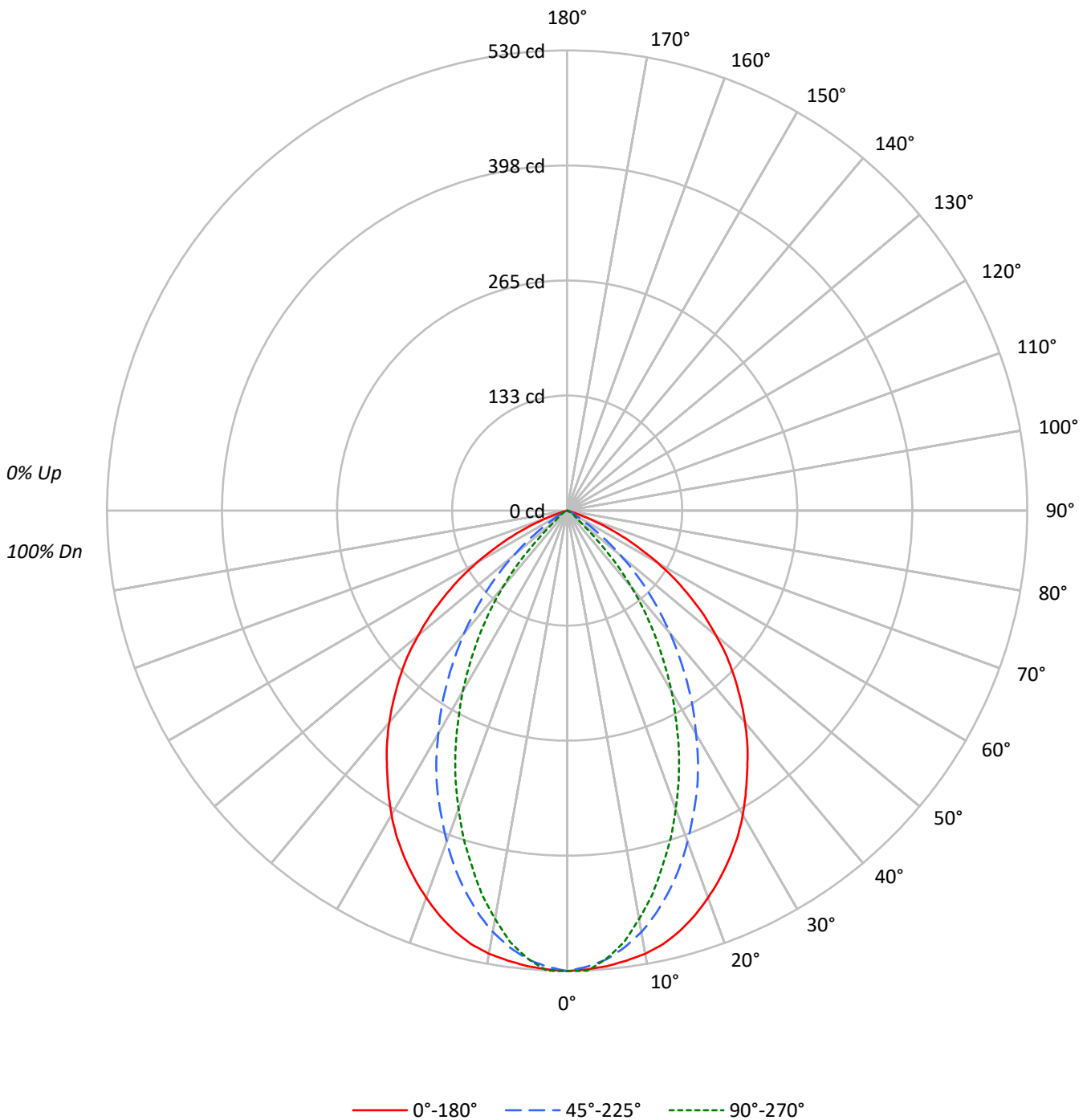
Lumens per Lamp: N/A
Luminaire Lumens: 692.6 lumens
Efficiency: N/A
Efficacy: 26.8 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 0.83 / 0.98
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

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°	4567	4567	4567
5°	4552	4485	4479
10°	4531	4310	4175
15°	4469	4046	3779
20°	4348	3716	3350
25°	4202	3364	2891
30°	4024	2949	2393
35°	3803	2530	1862
40°	3585	2076	1301
45°	3323	1597	644
50°	2998	1078	216
55°	2590	552	150
60°	2072	198	105
65°	1422	110	47
70°	637	58	38
75°	0	27	27
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3323 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.0	7.1
10°-20°	128.4	18.5
20°-30°	166.2	24.0
30°-40°	157.9	22.8
40°-50°	111.8	16.1
50°-60°	57.4	8.3
60°-70°	20.1	2.9
70°-80°	1.7	0.3
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°	343.6	49.6
0°-40°	501.5	72.4
0°-60°	670.8	96.8
0°-90°	692.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	692.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	530	530	530	530	530	
5°	527	527	519	519	518	50
15°	501	486	454	432	424	141
25°	442	408	354	317	304	203
35°	362	309	241	194	177	226
45°	273	210	131	75	53	210
55°	172	113	37	11	10	154
65°	70	34	5	3	2	69
75°	0	1	1	1	1	6
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	530.4	530.4	530.4	530.4	530.4
2.5°	528.9	530.4	525.8	529.7	530.4
5°	526.6	527.4	518.9	518.9	518.2
7.5°	522.8	521.2	507.4	502.1	501.3
10°	518.2	512.8	492.9	481.4	477.5
12.5°	511.3	501.3	474.5	457.6	453.0
15°	501.3	486.0	453.8	432.3	423.9
17.5°	489.0	469.1	430.8	404.7	396.3
20°	474.5	449.2	405.5	376.4	365.6
22.5°	459.1	430.0	379.4	346.5	335.7
25°	442.3	407.8	354.1	316.6	304.3
27.5°	424.6	384.0	326.5	287.4	271.3
30°	404.7	360.3	296.6	256.0	240.7
32.5°	383.3	334.2	269.8	226.1	207.7
35°	361.8	308.9	240.7	193.9	177.1
37.5°	341.1	285.1	211.6	162.5	146.4
40°	318.9	259.1	184.7	134.1	115.7
42.5°	295.9	233.8	157.1	105.0	85.1
45°	272.9	210.0	131.1	75.1	52.9
47.5°	249.9	184.7	105.8	47.5	28.4
50°	223.8	160.2	80.5	25.3	16.1
52.5°	199.3	137.2	57.5	14.6	12.3
55°	172.5	113.4	36.8	10.7	10.0
57.5°	147.2	90.4	20.7	8.4	7.7
60°	120.3	69.8	11.5	6.9	6.1
62.5°	93.5	50.6	7.7	4.6	3.8
65°	69.8	33.7	5.4	3.1	2.3
67.5°	46.0	19.2	3.8	1.5	1.5
70°	25.3	9.2	2.3	1.5	1.5
72.5°	9.2	3.1	1.5	0.8	0.8
75°	0.0	0.8	0.8	0.8	0.8
77.5°	0.0	0.0	0.0	0.0	0.8
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	13.80	15.06	14.17	15.37	15.69	0.00	0.00	0.00	0.00	0.00
	3H	14.08	15.19	14.46	15.52	15.88	0.00	0.00	0.00	0.00	0.00
	4H	14.01	15.03	14.41	15.38	15.77	0.00	0.00	0.00	0.00	0.00
	6H	13.92	14.86	14.34	15.23	15.62	0.00	0.00	0.00	0.00	0.00
	8H	13.87	14.76	14.30	15.15	15.56	0.00	0.00	0.00	0.00	0.00
	12H	13.83	14.67	14.26	15.06	15.49	0.00	0.00	0.00	0.00	0.00
4H	2H	13.58	14.60	13.98	14.95	15.34	0.00	0.00	0.00	0.00	0.00
	3H	13.86	14.69	14.28	15.09	15.50	0.00	0.00	0.00	0.00	0.00
	4H	13.77	14.50	14.20	14.93	15.37	0.00	0.00	0.00	0.00	0.00
	6H	13.68	14.31	14.15	14.76	15.23	0.00	0.00	0.00	0.00	0.00
	8H	13.62	14.21	14.09	14.66	15.13	0.00	0.00	0.00	0.00	0.00
	12H	13.57	14.08	14.06	14.57	15.04	0.00	0.00	0.00	0.00	0.00
8H	4H	13.62	14.21	14.09	14.66	15.13	0.00	0.00	0.00	0.00	0.00
	6H	13.51	13.99	14.02	14.49	14.97	0.00	0.00	0.00	0.00	0.00
	8H	13.44	13.87	13.97	14.39	14.88	0.00	0.00	0.00	0.00	0.00
	12H	13.39	13.77	13.91	14.27	14.84	0.00	0.00	0.00	0.00	0.00
12H	4H	13.57	14.09	14.06	14.57	15.05	0.00	0.00	0.00	0.00	0.00
	6H	13.44	13.87	13.97	14.39	14.88	0.00	0.00	0.00	0.00	0.00
	8H	13.39	13.77	13.91	14.27	14.84	0.00	0.00	0.00	0.00	0.00