

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: P1058089

Luminaire Tested: S122RDRP-S675D935-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1058089
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-20)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDRP-S675D935-X4F0-XX-UDD-SVL-B
Description: DEFINE 2 BLACK REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

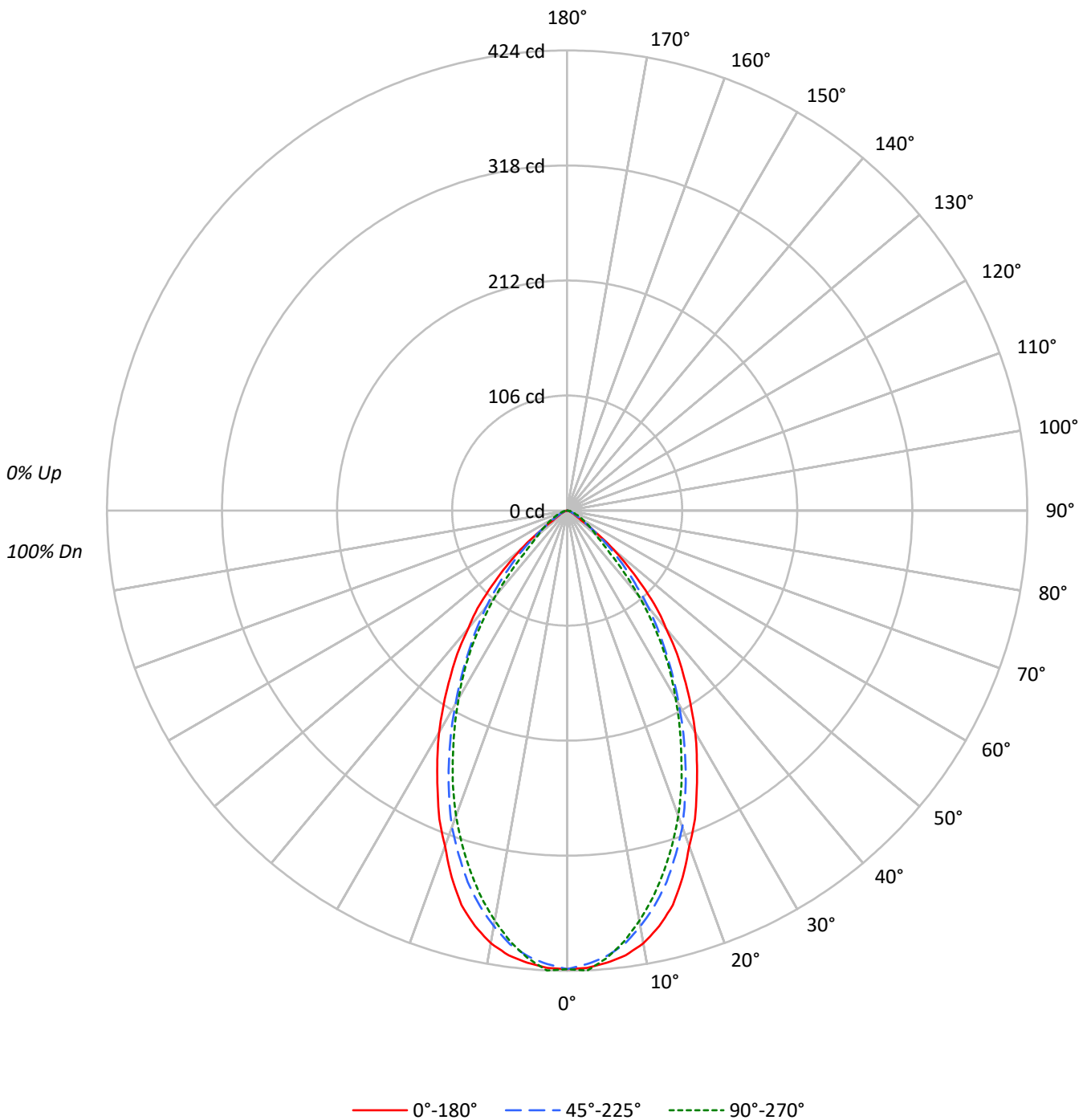
Lumens per Lamp: N/A
Luminaire Lumens: 454.4 lumens
Efficiency: N/A
Efficacy: 17.6 lumens/watt
Spacing Criteria (0/90/45): 0.93 / 0.85 / 0.91
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	113	110	107	104	110	107	105	103	103	101	99	100	98	96	96	95	94	92				92
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	87	85	84				84
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	80	78	76				76
4	94	85	79	74	92	84	78	74	82	77	73	80	76	72	78	74	71	70				70
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64				64
6	83	73	67	62	82	72	66	62	71	65	61	69	64	61	68	64	60	59				59
7	79	68	62	57	77	68	61	57	66	60	56	65	60	56	64	59	56	54				54
8	74	64	57	53	73	63	57	52	62	56	52	61	56	52	60	55	52	50				50
9	70	60	53	49	69	59	53	49	58	52	48	57	52	48	56	52	48	47				47
10	67	56	50	45	66	56	49	45	55	49	45	54	49	45	53	48	45	44				44

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7796	7796	7796
5°	7748	7639	7670
10°	7585	7285	7189
15°	7187	6766	6573
20°	6459	6095	5879
25°	5752	5255	5066
30°	5031	4385	4259
35°	4237	3552	3440
40°	3413	2804	2479
45°	2552	2025	1474
50°	1599	1306	967
55°	544	705	788
60°	310	435	624
65°	223	293	480
70°	183	227	361
75°	121	178	299
80°	85	181	266
85°	0	0	169

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2552 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.9	8.6
10°-20°	99.7	21.9
20°-30°	120.0	26.4
30°-40°	102.6	22.6
40°-50°	60.1	13.2
50°-60°	21.8	4.8
60°-70°	7.7	1.7
70°-80°	3.1	0.7
80°-90°	0.5	0.1
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°	258.7	56.9
0°-40°	361.2	79.5
0°-60°	443.1	97.5
0°-90°	454.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	454.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	422	422	422	422	422	
5°	418	419	412	414	414	40
15°	376	370	354	348	344	104
25°	282	271	258	254	249	130
35°	188	174	158	156	153	117
45°	98	88	78	65	56	75
55°	17	24	22	23	24	21
65°	5	6	7	9	11	5
75°	2	2	2	3	4	2
85°	0	0	0	1	1	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	422.5	422.5	422.5	422.5	422.5
2.5°	421.7	422.5	418.3	422.5	424.2
5°	418.3	419.2	412.4	414.1	414.1
7.5°	413.3	412.4	403.1	401.5	400.6
10°	404.8	402.3	388.8	386.3	383.7
12.5°	392.2	387.1	372.8	368.6	365.2
15°	376.2	370.2	354.2	347.5	344.1
17.5°	354.2	347.5	332.3	325.5	322.2
20°	328.9	322.2	310.4	302.8	299.4
22.5°	307.8	296.9	284.2	279.2	274.9
25°	282.5	270.7	258.1	253.9	248.8
27.5°	258.9	244.6	231.9	228.6	224.3
30°	236.1	221.0	205.8	205.8	199.9
32.5°	211.7	197.4	181.3	180.5	177.1
35°	188.1	173.7	157.7	156.0	152.7
37.5°	166.1	151.8	136.6	131.6	127.4
40°	141.7	129.0	116.4	108.0	102.9
42.5°	122.3	108.0	95.3	85.2	78.4
45°	97.8	87.7	77.6	64.9	56.5
47.5°	75.9	69.2	60.7	46.4	42.2
50°	55.7	52.3	45.5	34.6	33.7
52.5°	35.4	37.1	32.9	27.0	29.5
55°	16.9	23.6	21.9	22.8	24.5
57.5°	11.0	11.8	16.0	18.6	20.2
60°	8.4	8.4	11.8	15.2	16.9
62.5°	6.7	6.7	9.3	12.7	13.5
65°	5.1	5.9	6.7	9.3	11.0
67.5°	4.2	4.2	5.1	7.6	8.4
70°	3.4	3.4	4.2	5.9	6.7
72.5°	2.5	2.5	3.4	5.1	5.1
75°	1.7	2.5	2.5	3.4	4.2
77.5°	1.7	1.7	1.7	2.5	3.4
80°	0.8	0.8	1.7	1.7	2.5
82.5°	0.8	0.8	0.8	0.8	1.7
85°	0.0	0.0	0.0	0.8	0.8
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	3.02	4.18	3.38	4.49	4.81	6.43	7.59	6.79	7.90	8.22
	3H	3.54	4.56	3.92	4.89	5.26	7.15	8.17	7.53	8.50	8.87
	4H	3.67	4.62	4.08	4.97	5.36	7.37	8.31	7.77	8.67	9.05
	6H	3.74	4.61	4.16	4.98	5.38	7.52	8.38	7.93	8.76	9.15
	8H	3.74	4.56	4.18	4.95	5.36	7.55	8.36	7.98	8.76	9.16
	12H	3.71	4.49	4.14	4.87	5.30	7.55	8.33	7.98	8.71	9.14
4H	2H	3.32	4.27	3.73	4.62	5.01	6.39	7.34	6.80	7.69	8.08
	3H	3.98	4.75	4.40	5.16	5.56	7.26	8.03	7.68	8.44	8.84
	4H	4.22	4.90	4.66	5.32	5.77	7.54	8.23	7.98	8.65	9.10
	6H	4.34	4.92	4.80	5.37	5.84	7.77	8.35	8.23	8.80	9.27
	8H	4.34	4.89	4.82	5.34	5.81	7.81	8.36	8.28	8.81	9.28
	12H	4.31	4.78	4.80	5.27	5.75	7.83	8.31	8.32	8.79	9.27
8H	4H	4.33	4.87	4.80	5.32	5.79	7.47	8.02	7.95	8.47	8.94
	6H	4.49	4.93	4.99	5.43	5.91	7.73	8.17	8.24	8.67	9.16
	8H	4.52	4.92	5.05	5.44	5.93	7.79	8.19	8.32	8.71	9.20
	12H	4.50	4.84	5.02	5.34	5.92	7.84	8.19	8.36	8.69	9.26
12H	4H	4.31	4.79	4.80	5.28	5.75	7.43	7.90	7.92	8.39	8.87
	6H	4.48	4.88	5.01	5.40	5.89	7.68	8.08	8.21	8.60	9.09
	8H	4.55	4.89	5.06	5.39	5.97	7.76	8.11	8.28	8.61	9.18