

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: P1058110

Luminaire Tested: S122RDRP-S675D950-X4F0-XX-UDD-WVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1058110
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-19)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDRP-S675D950-X4F0-XX-UDD-WVL-B
Description: DEFINE 2 BLACK REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

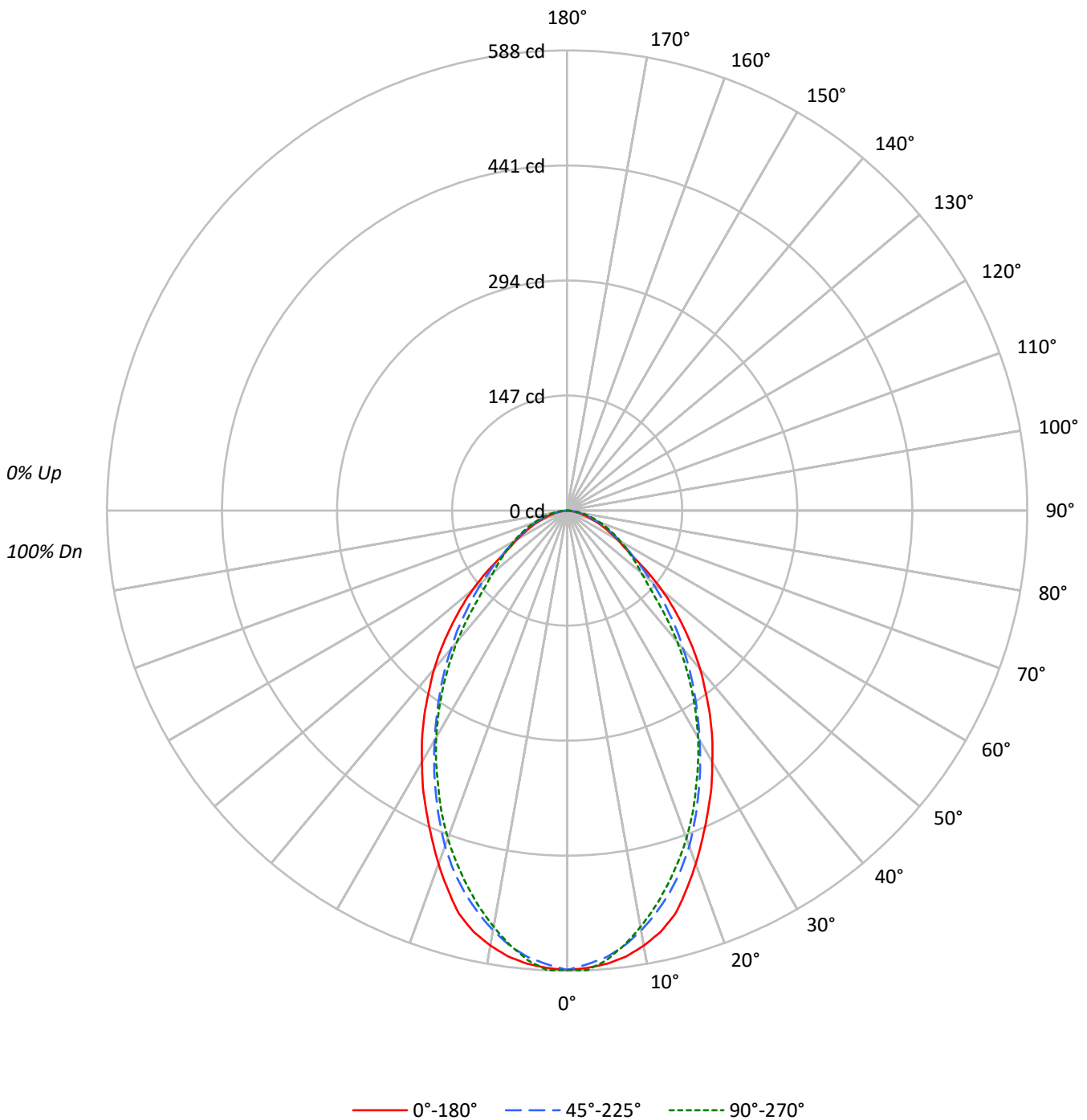
Lumens per Lamp: N/A
Luminaire Lumens: 891.3 lumens
Efficiency: N/A
Efficacy: 34.5 lumens/watt
Spacing Criteria (0/90/45): 1 / 0.92 / 1.02
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88
2	103	96	91	86	100	94	89	85	91	87	83	88	84	81	85	82	79	77
3	95	87	80	74	93	85	79	74	82	77	73	80	75	71	77	73	70	68
4	89	79	71	65	87	77	70	65	75	69	64	73	68	63	71	66	63	61
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54
6	77	66	58	52	75	65	57	52	63	56	52	61	56	51	60	55	51	49
7	72	60	53	47	71	60	52	47	58	52	47	57	51	47	56	50	46	44
8	68	56	48	43	66	55	48	43	54	47	43	53	47	43	52	46	42	41
9	64	52	45	40	63	51	44	39	50	44	39	49	43	39	48	43	39	37
10	60	48	41	36	59	48	41	36	47	41	36	46	40	36	45	40	36	34

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10830	10830	10830
5°	10767	10612	10680
10°	10577	10208	10122
15°	10194	9659	9462
20°	9433	8956	8754
25°	8657	8087	7934
30°	7905	7208	7129
35°	7159	6379	6231
40°	6371	5560	5268
45°	5488	4781	4220
50°	4533	4025	3542
55°	3278	3336	3188
60°	2724	2864	2897
65°	2327	2489	2650
70°	1915	2217	2422
75°	1597	1868	2196
80°	1190	1488	1987
85°	402	783	1778

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5488 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.2	6.1
10°-20°	142.9	16.0
20°-30°	184.9	20.7
30°-40°	181.3	20.3
40°-50°	142.8	16.0
50°-60°	93.6	10.5
60°-70°	57.0	6.4
70°-80°	28.5	3.2
80°-90°	6.1	0.7
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°	382.0	42.9
0°-40°	563.4	63.2
0°-60°	799.8	89.7
0°-90°	891.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	891.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	587	587	587	587	587	
5°	581	581	573	577	577	55
15°	534	526	506	499	495	149
25°	425	411	397	395	390	196
35°	318	300	283	282	277	198
45°	210	197	183	170	162	162
55°	102	108	104	100	99	97
65°	53	54	57	60	61	53
75°	22	23	26	30	31	24
85°	2	3	4	6	8	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	586.9	586.9	586.9	586.9	586.9
2.5°	585.0	586.0	580.4	586.0	587.8
5°	581.3	581.3	572.9	576.6	576.6
7.5°	574.8	573.8	560.7	560.7	559.8
10°	564.5	560.7	544.8	542.0	540.2
12.5°	551.4	544.8	526.2	521.5	518.7
15°	533.6	526.2	505.6	499.1	495.3
17.5°	507.5	500.0	482.2	474.8	471.0
20°	480.4	469.2	456.1	449.5	445.8
22.5°	452.3	439.2	427.1	422.4	418.7
25°	425.2	411.2	397.2	395.3	389.7
27.5°	399.1	382.2	368.2	367.3	362.6
30°	371.0	353.3	338.3	339.2	334.6
32.5°	344.9	328.0	310.3	311.2	305.6
35°	317.8	300.0	283.2	282.2	276.6
37.5°	289.7	272.9	257.0	253.3	247.7
40°	264.5	247.7	230.8	224.3	218.7
42.5°	237.4	222.4	207.5	197.2	189.7
45°	210.3	197.2	183.2	170.1	161.7
47.5°	184.1	173.8	161.7	145.8	140.2
50°	157.9	150.5	140.2	126.2	123.4
52.5°	130.8	128.0	121.5	112.1	111.2
55°	101.9	107.5	103.7	100.0	99.1
57.5°	86.0	86.9	89.7	88.8	88.8
60°	73.8	73.8	77.6	78.5	78.5
62.5°	62.6	63.6	67.3	69.2	69.2
65°	53.3	54.2	57.0	59.8	60.7
67.5°	43.9	45.8	48.6	51.4	52.3
70°	35.5	37.4	41.1	43.9	44.9
72.5°	29.0	29.9	33.6	36.4	37.4
75°	22.4	23.4	26.2	29.9	30.8
77.5°	15.9	17.8	20.6	23.4	25.2
80°	11.2	12.1	14.0	17.8	18.7
82.5°	6.5	7.5	9.3	12.1	13.1
85°	1.9	2.8	3.7	6.5	8.4
87.5°	0.0	0.0	0.0	1.9	3.7
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	14.40	15.80	14.76	16.11	16.42	14.58	15.98	14.94	16.29	16.60
	3H	15.53	16.78	15.91	17.11	17.47	16.04	17.28	16.42	17.61	17.98
	4H	15.88	17.05	16.28	17.40	17.78	16.58	17.74	16.98	18.09	18.47
	6H	16.07	17.14	16.48	17.51	17.90	16.99	18.06	17.41	18.43	18.83
	8H	16.09	17.11	16.52	17.50	17.90	17.12	18.14	17.55	18.53	18.93
	12H	16.08	17.05	16.51	17.43	17.86	17.20	18.18	17.64	18.56	18.99
4H	2H	14.86	16.02	15.26	16.37	16.75	15.01	16.17	15.41	16.52	16.90
	3H	16.20	17.15	16.61	17.56	17.96	16.68	17.63	17.09	18.04	18.44
	4H	16.64	17.50	17.07	17.92	18.36	17.34	18.20	17.78	18.62	19.06
	6H	16.91	17.66	17.37	18.10	18.56	17.88	18.62	18.34	19.06	19.53
	8H	16.96	17.65	17.42	18.10	18.57	18.05	18.74	18.51	19.19	19.65
	12H	16.95	17.57	17.44	18.05	18.52	18.17	18.78	18.65	19.26	19.74
8H	4H	16.86	17.55	17.32	17.99	18.46	17.49	18.18	17.96	18.63	19.10
	6H	17.20	17.77	17.70	18.26	18.74	18.12	18.69	18.62	19.19	19.67
	8H	17.28	17.79	17.80	18.30	18.79	18.36	18.87	18.88	19.38	19.87
	12H	17.30	17.75	17.81	18.24	18.81	18.54	18.99	19.05	19.48	20.05
12H	4H	16.87	17.48	17.35	17.96	18.44	17.48	18.09	17.96	18.57	19.05
	6H	17.23	17.74	17.74	18.25	18.74	18.12	18.63	18.64	19.14	19.63
	8H	17.34	17.79	17.85	18.29	18.85	18.39	18.84	18.91	19.34	19.90