

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1058098

Luminaire Tested: S122RDR-S675D940-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1058098
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: S122RDR-S675D940-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: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

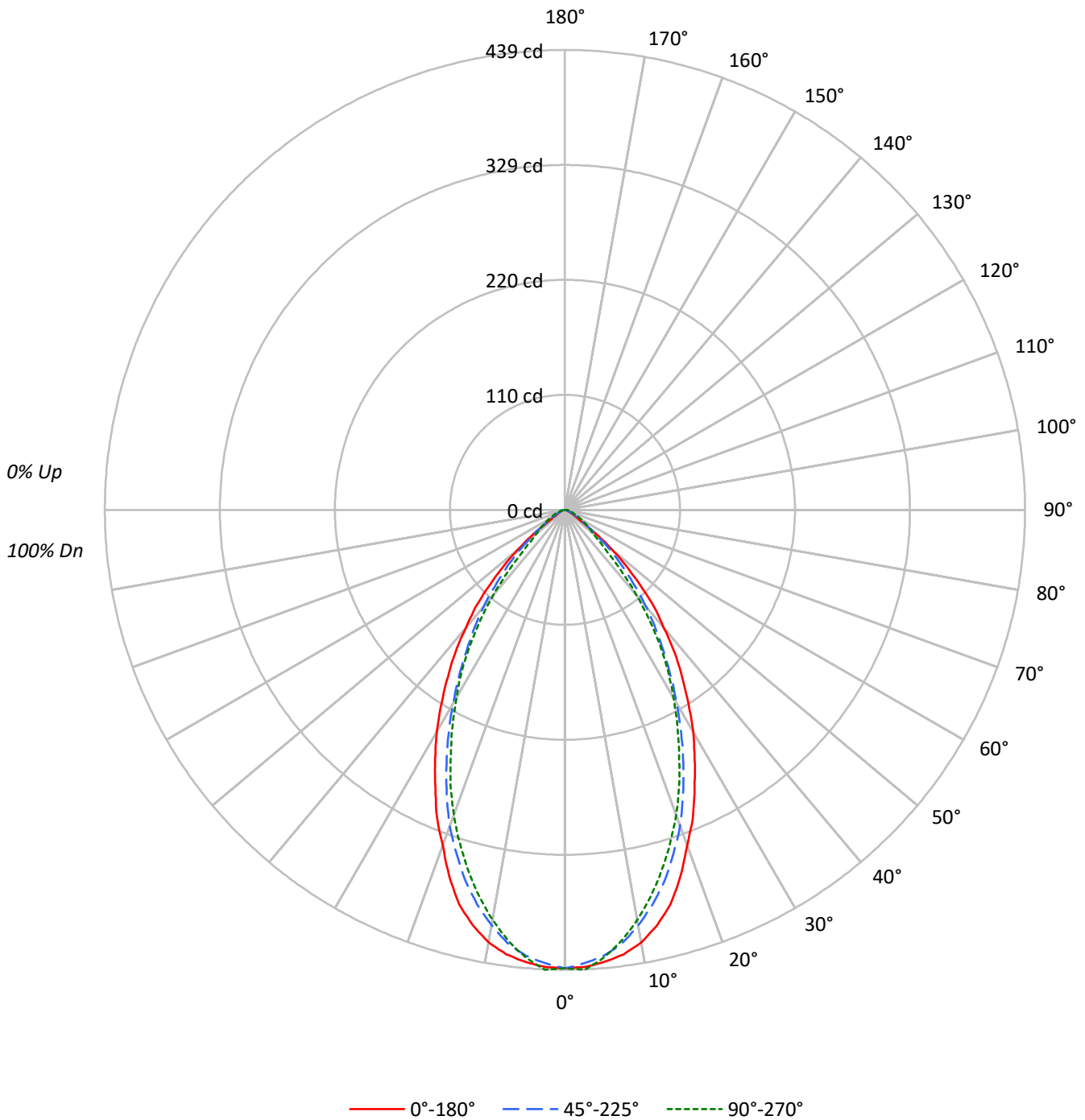
Lumens per Lamp: N/A
Luminaire Lumens: 470.6 lumens
Efficiency: N/A
Efficacy: 18.2 lumens/watt
Spacing Criteria (0/90/45): 0.93 / 0.85 / 0.91
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 25.8
Input Voltage (V): 120
Input Current (Ain): 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	113	110	107	104	110	107	105	103	103	101	99	100	98	96	96	95	94	92
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	87	85	84
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	80	78	76
4	94	85	79	74	92	84	78	74	82	77	73	80	76	72	78	74	71	70
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64
6	83	73	67	62	82	72	66	62	71	65	61	69	64	61	68	64	60	59
7	79	68	62	57	77	68	61	57	66	60	56	65	60	56	64	59	56	54
8	74	64	57	53	73	63	57	52	62	56	52	61	56	52	60	55	52	50
9	70	60	53	49	69	59	53	49	58	52	48	57	52	48	56	52	48	47
10	67	56	50	45	66	56	49	45	55	49	45	54	49	45	53	48	45	44

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8075	8075	8075
5°	8024	7911	7944
10°	7856	7545	7446
15°	7443	7009	6808
20°	6690	6311	6089
25°	5957	5442	5247
30°	5212	4541	4411
35°	4388	3679	3561
40°	3534	2903	2568
45°	2643	2098	1527
50°	1654	1355	1002
55°	563	730	814
60°	321	450	646
65°	227	306	498
70°	189	237	378
75°	121	185	314
80°	96	181	276
85°	0	0	191

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2643 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.3	8.6
10°-20°	103.3	21.9
20°-30°	124.3	26.4
30°-40°	106.2	22.6
40°-50°	62.2	13.2
50°-60°	22.5	4.8
60°-70°	8.0	1.7
70°-80°	3.2	0.7
80°-90°	0.6	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°	267.9	56.9
0°-40°	374.1	79.5
0°-60°	458.9	97.5
0°-90°	470.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	470.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	438	438	438	438	438	
5°	433	434	427	429	429	41
15°	390	384	367	360	356	108
25°	293	280	267	263	258	134
35°	195	180	163	162	158	122
45°	101	91	80	67	58	78
55°	18	24	23	24	25	22
65°	5	6	7	10	11	6
75°	2	3	3	4	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°	437.6	437.6	437.6	437.6	437.6
2.5°	436.7	437.6	433.2	437.6	439.4
5°	433.2	434.1	427.1	428.9	428.9
7.5°	428.0	427.1	417.5	415.8	414.9
10°	419.3	416.6	402.7	400.1	397.4
12.5°	406.2	400.9	386.1	381.7	378.2
15°	389.6	383.5	366.9	359.9	356.4
17.5°	366.9	359.9	344.1	337.2	333.7
20°	340.7	333.7	321.4	313.6	310.1
22.5°	318.8	307.5	294.4	289.1	284.8
25°	292.6	280.4	267.3	262.9	257.7
27.5°	268.2	253.3	240.2	236.7	232.3
30°	244.6	228.9	213.1	213.1	207.0
32.5°	219.2	204.4	187.8	186.9	183.4
35°	194.8	179.9	163.3	161.6	158.1
37.5°	172.1	157.2	141.5	136.3	131.9
40°	146.7	133.6	120.5	111.8	106.6
42.5°	126.7	111.8	98.7	88.2	81.2
45°	101.3	90.8	80.4	67.3	58.5
47.5°	78.6	71.6	62.9	48.0	43.7
50°	57.6	54.2	47.2	35.8	34.9
52.5°	36.7	38.4	34.1	28.0	30.6
55°	17.5	24.5	22.7	23.6	25.3
57.5°	11.4	12.2	16.6	19.2	21.0
60°	8.7	8.7	12.2	15.7	17.5
62.5°	7.0	7.0	9.6	13.1	14.0
65°	5.2	6.1	7.0	9.6	11.4
67.5°	4.4	4.4	5.2	7.9	8.7
70°	3.5	3.5	4.4	6.1	7.0
72.5°	2.6	2.6	3.5	5.2	5.2
75°	1.7	2.6	2.6	3.5	4.4
77.5°	1.7	1.7	1.7	2.6	3.5
80°	0.9	0.9	1.7	1.7	2.6
82.5°	0.9	0.9	0.9	0.9	1.7
85°	0.0	0.0	0.0	0.9	0.9
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)