

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: P1058062

Luminaire Tested: S122RDR-S675D850-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1058062
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-S675D850-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: 5000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

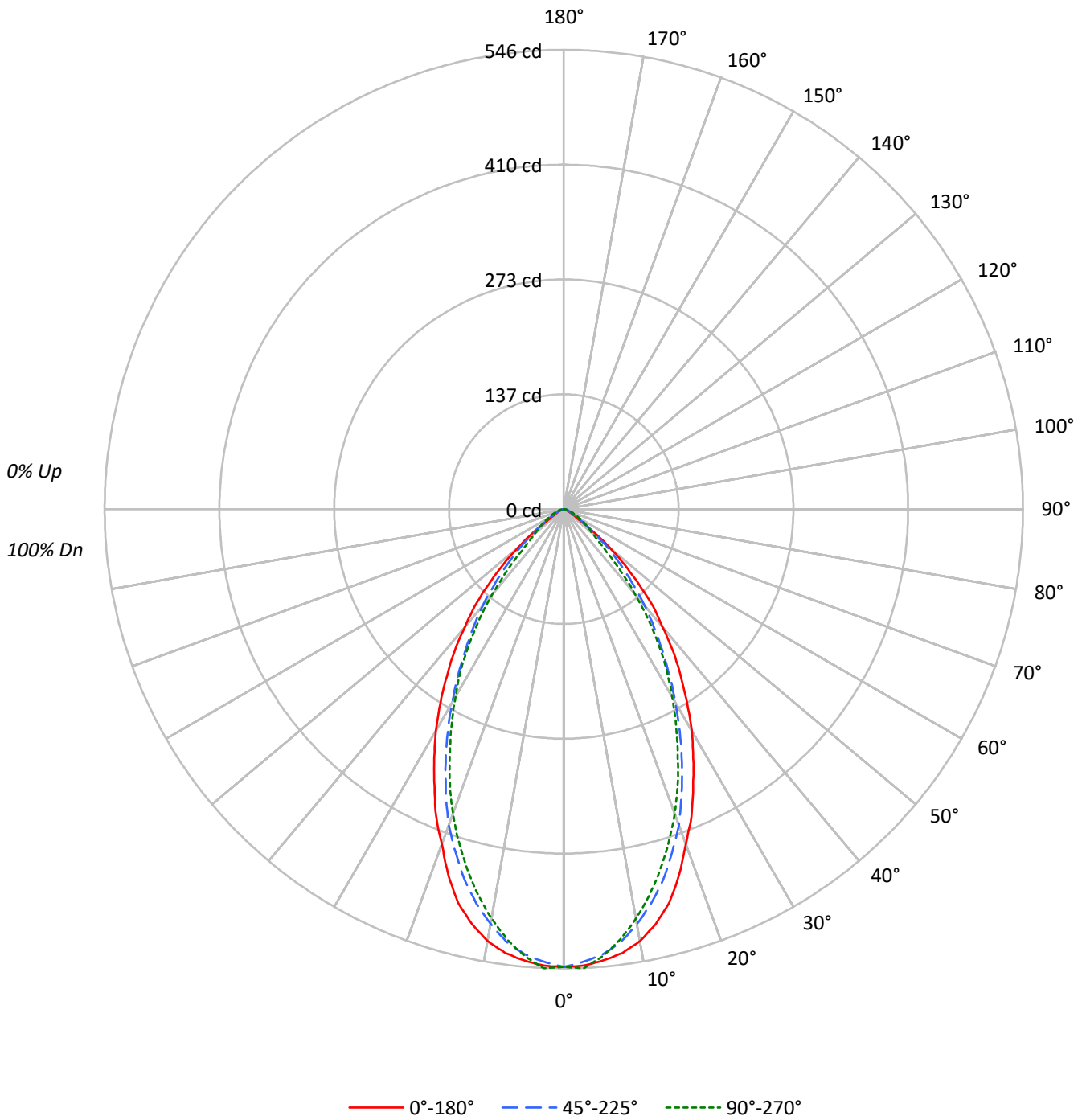
Lumens per Lamp: N/A
Luminaire Lumens: 585.3 lumens
Efficiency: N/A
Efficacy: 22.7 lumens/watt
Spacing Criteria (0/90/45): 0.93 / 0.85 / 0.91
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

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°	10042	10042	10042
5°	9980	9839	9880
10°	9770	9384	9262
15°	9256	8717	8467
20°	8320	7851	7572
25°	7409	6768	6525
30°	6482	5649	5487
35°	5456	4575	4429
40°	4396	3611	3192
45°	3288	2607	1900
50°	2058	1685	1249
55°	698	907	1013
60°	402	561	801
65°	284	380	616
70°	232	291	469
75°	157	235	385
80°	117	234	351
85°	0	0	233

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3288 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.2	8.6
10°-20°	128.4	21.9
20°-30°	154.6	26.4
30°-40°	132.1	22.6
40°-50°	77.4	13.2
50°-60°	28.0	4.8
60°-70°	9.9	1.7
70°-80°	4.0	0.7
80°-90°	0.7	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°	333.2	56.9
0°-40°	465.3	79.5
0°-60°	570.7	97.5
0°-90°	585.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	585.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	544	544	544	544	544	
5°	539	540	531	533	533	51
15°	484	477	456	448	443	135
25°	364	349	332	327	320	167
35°	242	224	203	201	197	151
45°	126	113	100	84	73	97
55°	22	30	28	29	32	27
65°	6	8	9	12	14	7
75°	2	3	3	4	5	3
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°	544.2	544.2	544.2	544.2	544.2
2.5°	543.2	544.2	538.8	544.2	546.4
5°	538.8	539.9	531.2	533.4	533.4
7.5°	532.3	531.2	519.3	517.1	516.0
10°	521.4	518.2	500.8	497.5	494.3
12.5°	505.1	498.6	480.2	474.7	470.4
15°	484.5	476.9	456.3	447.6	443.2
17.5°	456.3	447.6	428.0	419.3	415.0
20°	423.7	415.0	399.8	390.0	385.6
22.5°	396.5	382.4	366.1	359.6	354.1
25°	363.9	348.7	332.4	327.0	320.5
27.5°	333.5	315.0	298.7	294.4	289.0
30°	304.2	284.6	265.1	265.1	257.5
32.5°	272.7	254.2	233.6	232.5	228.1
35°	242.2	223.8	203.1	201.0	196.6
37.5°	214.0	195.5	176.0	169.5	164.0
40°	182.5	166.2	149.9	139.0	132.5
42.5°	157.5	139.0	122.8	109.7	101.0
45°	126.0	113.0	99.9	83.6	72.8
47.5°	97.8	89.1	78.2	59.7	54.3
50°	71.7	67.4	58.7	44.5	43.5
52.5°	45.6	47.8	42.4	34.8	38.0
55°	21.7	30.4	28.2	29.3	31.5
57.5°	14.1	15.2	20.6	23.9	26.1
60°	10.9	10.9	15.2	19.6	21.7
62.5°	8.7	8.7	11.9	16.3	17.4
65°	6.5	7.6	8.7	11.9	14.1
67.5°	5.4	5.4	6.5	9.8	10.9
70°	4.3	4.3	5.4	7.6	8.7
72.5°	3.3	3.3	4.3	6.5	6.5
75°	2.2	3.3	3.3	4.3	5.4
77.5°	2.2	2.2	2.2	3.3	4.3
80°	1.1	1.1	2.2	2.2	3.3
82.5°	1.1	1.1	1.1	1.1	2.2
85°	0.0	0.0	0.0	1.1	1.1
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)