

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: P1058074

Luminaire Tested: S122RDR-S675D927-X4F0-XX-UDD-WVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1058074
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: S122RDR-S675D927-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: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

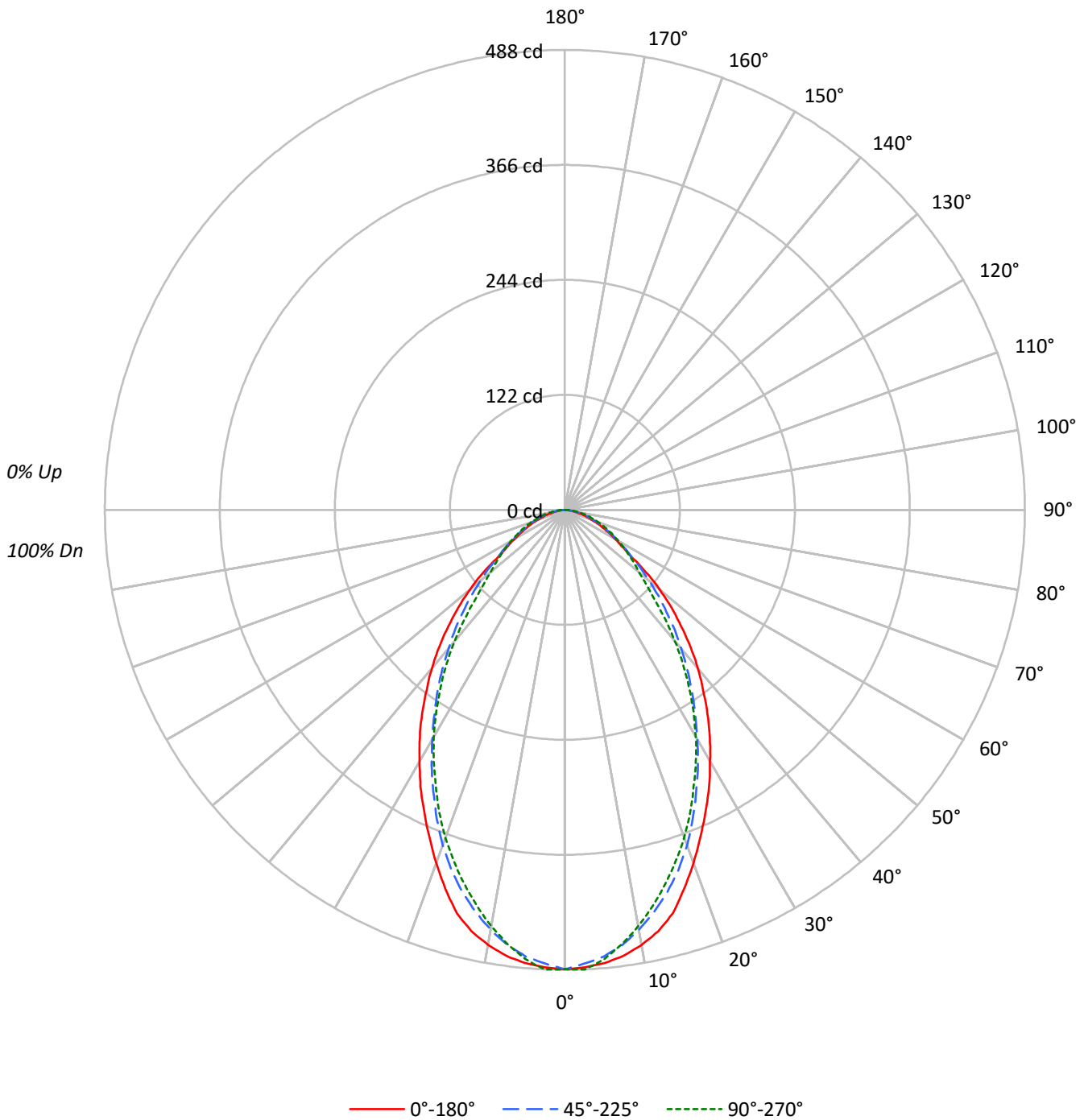
Lumens per Lamp: N/A
Luminaire Lumens: 740.1 lumens
Efficiency: N/A
Efficacy: 28.7 lumens/watt
Spacing Criteria (0/90/45): 1 / 0.92 / 1.02
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 25.8
Input Voltage (V): 120
Input Current (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	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°	8994	8994	8994
5°	8941	8811	8869
10°	8782	8477	8405
15°	8465	8020	7857
20°	7833	7436	7270
25°	7189	6715	6589
30°	6565	5985	5919
35°	5945	5296	5174
40°	5290	4618	4374
45°	4556	3969	3505
50°	3766	3341	2940
55°	2722	2770	2648
60°	2262	2377	2406
65°	1930	2065	2201
70°	1592	1840	2007
75°	1326	1547	1825
80°	988	1233	1647
85°	339	656	1482

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4556 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.0	6.1
10°-20°	118.6	16.0
20°-30°	153.5	20.7
30°-40°	150.6	20.3
40°-50°	118.6	16.0
50°-60°	77.7	10.5
60°-70°	47.3	6.4
70°-80°	23.6	3.2
80°-90°	5.1	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°	317.2	42.9
0°-40°	467.8	63.2
0°-60°	664.1	89.7
0°-90°	740.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	740.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	487	487	487	487	487	
5°	483	483	476	479	479	46
15°	443	437	420	414	411	123
25°	353	342	330	328	324	162
35°	264	249	235	234	230	165
45°	175	164	152	141	134	135
55°	85	89	86	83	82	80
65°	44	45	47	50	50	44
75°	19	19	22	25	26	20
85°	2	2	3	5	7	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	487.4	487.4	487.4	487.4	487.4
2.5°	485.8	486.6	481.9	486.6	488.1
5°	482.7	482.7	475.7	478.8	478.8
7.5°	477.3	476.5	465.6	465.6	464.8
10°	468.7	465.6	452.4	450.1	448.6
12.5°	457.9	452.4	436.9	433.0	430.7
15°	443.1	436.9	419.8	414.4	411.3
17.5°	421.4	415.2	400.4	394.2	391.1
20°	398.9	389.6	378.7	373.3	370.2
22.5°	375.6	364.7	354.7	350.8	347.7
25°	353.1	341.5	329.8	328.3	323.6
27.5°	331.4	317.4	305.8	305.0	301.1
30°	308.1	293.3	280.9	281.7	277.8
32.5°	286.4	272.4	257.6	258.4	253.8
35°	263.9	249.1	235.1	234.4	229.7
37.5°	240.6	226.6	213.4	210.3	205.7
40°	219.6	205.7	191.7	186.2	181.6
42.5°	197.1	184.7	172.3	163.7	157.5
45°	174.6	163.7	152.1	141.2	134.3
47.5°	152.9	144.3	134.3	121.1	116.4
50°	131.2	124.9	116.4	104.8	102.4
52.5°	108.6	106.3	100.9	93.1	92.3
55°	84.6	89.2	86.1	83.0	82.3
57.5°	71.4	72.2	74.5	73.7	73.7
60°	61.3	61.3	64.4	65.2	65.2
62.5°	52.0	52.8	55.9	57.4	57.4
65°	44.2	45.0	47.3	49.7	50.4
67.5°	36.5	38.0	40.4	42.7	43.5
70°	29.5	31.0	34.1	36.5	37.2
72.5°	24.1	24.8	27.9	30.3	31.0
75°	18.6	19.4	21.7	24.8	25.6
77.5°	13.2	14.7	17.1	19.4	21.0
80°	9.3	10.1	11.6	14.7	15.5
82.5°	5.4	6.2	7.8	10.1	10.9
85°	1.6	2.3	3.1	5.4	7.0
87.5°	0.0	0.0	0.0	1.6	3.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)