

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: P1058156

Luminaire Tested: S122RDR-S865D927-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1058156
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-58)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDR-S865D927-X4F0-XX-UDD-WVL-S
Description: DEFINE 2 SILVER REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

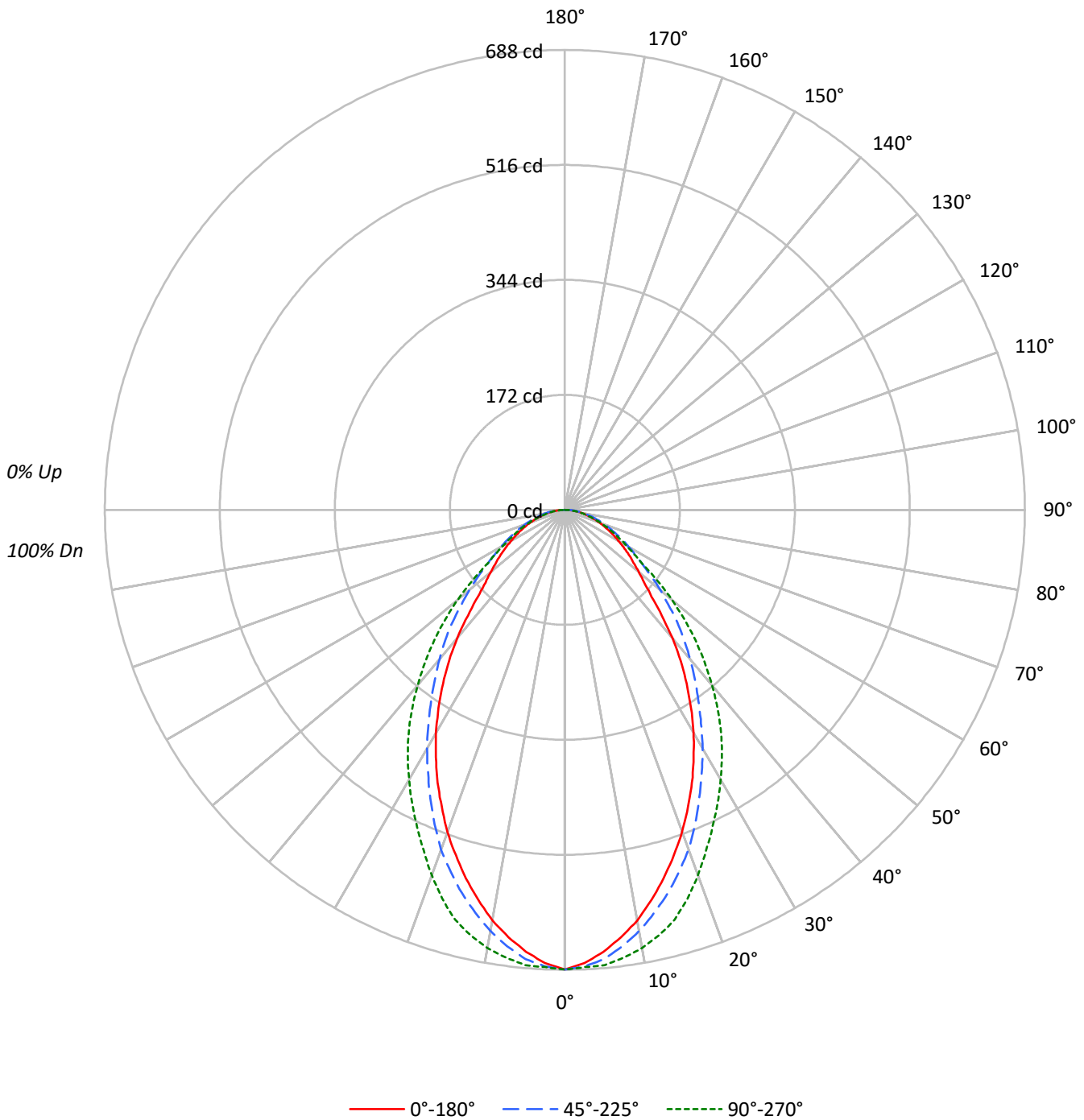
Lumens per Lamp: N/A
Luminaire Lumens: 1119.7 lumens
Efficiency: N/A
Efficacy: 32.0 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 1.05 / 1.05
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 35
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

TEST NUMBER: P1058156

CATALOG NUMBER: S122RDR-S865D927-X4F0-XX-UDD-WVL-S

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	110	106	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87
2	102	95	89	84	100	93	88	83	90	85	81	87	83	79	84	80	78	76
3	94	85	78	73	92	84	77	72	81	75	71	78	73	69	76	72	68	66
4	88	77	69	63	85	76	69	63	73	67	62	71	66	61	69	64	61	59
5	81	70	62	56	79	69	61	56	67	60	55	65	59	55	63	58	54	52
6	76	64	56	50	74	63	56	50	61	55	50	60	54	49	58	53	49	47
7	71	59	51	45	69	58	51	45	57	50	45	55	49	45	54	49	44	43
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41	39
9	63	50	43	38	61	50	43	38	49	42	38	48	42	37	47	41	37	36
10	59	47	40	35	58	46	39	35	45	39	35	45	39	34	44	38	34	33

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12688	12688	12688
5°	12294	12496	12662
10°	11686	11986	12471
15°	10904	11344	12125
20°	10074	10621	11425
25°	9164	9691	10646
30°	8207	8783	9931
35°	7150	7846	9173
40°	6034	7019	8245
45°	4791	6198	7213
50°	4125	5328	5988
55°	3758	4559	4591
60°	3425	4052	3905
65°	3139	3659	3441
70°	2908	3394	3070
75°	2702	3201	2702
80°	2550	3071	2444
85°	2541	3176	2117

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 7213 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.5	5.7
10°-20°	167.8	15.0
20°-30°	220.8	19.7
30°-40°	222.1	19.8
40°-50°	180.0	16.1
50°-60°	124.0	11.1
60°-70°	81.1	7.2
70°-80°	45.2	4.0
80°-90°	15.3	1.4
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°	452.1	40.4
0°-40°	674.1	60.2
0°-60°	978.1	87.4
0°-90°	1119.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1119.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	688	688	688	688	688	
5°	664	677	675	678	684	62
15°	571	585	594	616	635	160
25°	450	462	476	497	523	206
35°	317	332	348	379	407	198
45°	184	205	238	258	276	145
55°	117	130	142	145	143	105
65°	72	86	84	80	79	72
75°	38	47	45	40	38	41
85°	12	16	15	13	10	13
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	687.6	687.6	687.6	687.6	687.6
2.5°	678.6	690.6	683.6	683.6	684.6
5°	663.7	676.6	674.6	677.6	683.6
7.5°	644.7	658.7	658.7	667.6	675.6
10°	623.7	637.7	639.7	653.7	665.6
12.5°	597.8	611.8	617.7	635.7	651.7
15°	570.8	584.8	593.8	615.7	634.7
17.5°	541.9	555.9	567.8	590.8	609.8
20°	513.0	525.9	540.9	560.9	581.8
22.5°	481.0	495.0	509.0	527.9	551.9
25°	450.1	462.1	476.0	497.0	522.9
27.5°	417.2	430.1	443.1	468.0	495.0
30°	385.2	398.2	412.2	438.1	466.1
32.5°	351.3	365.3	379.2	408.2	437.1
35°	317.4	332.3	348.3	379.2	407.2
37.5°	284.4	300.4	319.4	351.3	375.2
40°	250.5	267.5	291.4	319.4	342.3
42.5°	214.6	235.5	264.5	288.4	309.4
45°	183.6	204.6	237.5	258.5	276.4
47.5°	160.7	177.6	209.6	227.5	242.5
50°	143.7	156.7	185.6	198.6	208.6
52.5°	129.7	142.7	162.7	171.7	174.6
55°	116.8	129.7	141.7	144.7	142.7
57.5°	103.8	117.8	124.7	121.8	121.8
60°	92.8	107.8	109.8	105.8	105.8
62.5°	81.8	96.8	96.8	91.8	91.8
65°	71.9	85.8	83.8	79.8	78.8
67.5°	62.9	75.8	72.9	68.9	67.9
70°	53.9	65.9	62.9	57.9	56.9
72.5°	45.9	56.9	52.9	48.9	46.9
75°	37.9	46.9	44.9	39.9	37.9
77.5°	30.9	37.9	35.9	31.9	29.9
80°	24.0	29.9	28.9	24.9	23.0
82.5°	18.0	23.0	22.0	19.0	16.0
85°	12.0	16.0	15.0	13.0	10.0
87.5°	6.0	11.0	10.0	9.0	5.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)