

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: P1058093

Luminaire Tested: S122RDR-S675D935-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1058093
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-S675D935-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: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

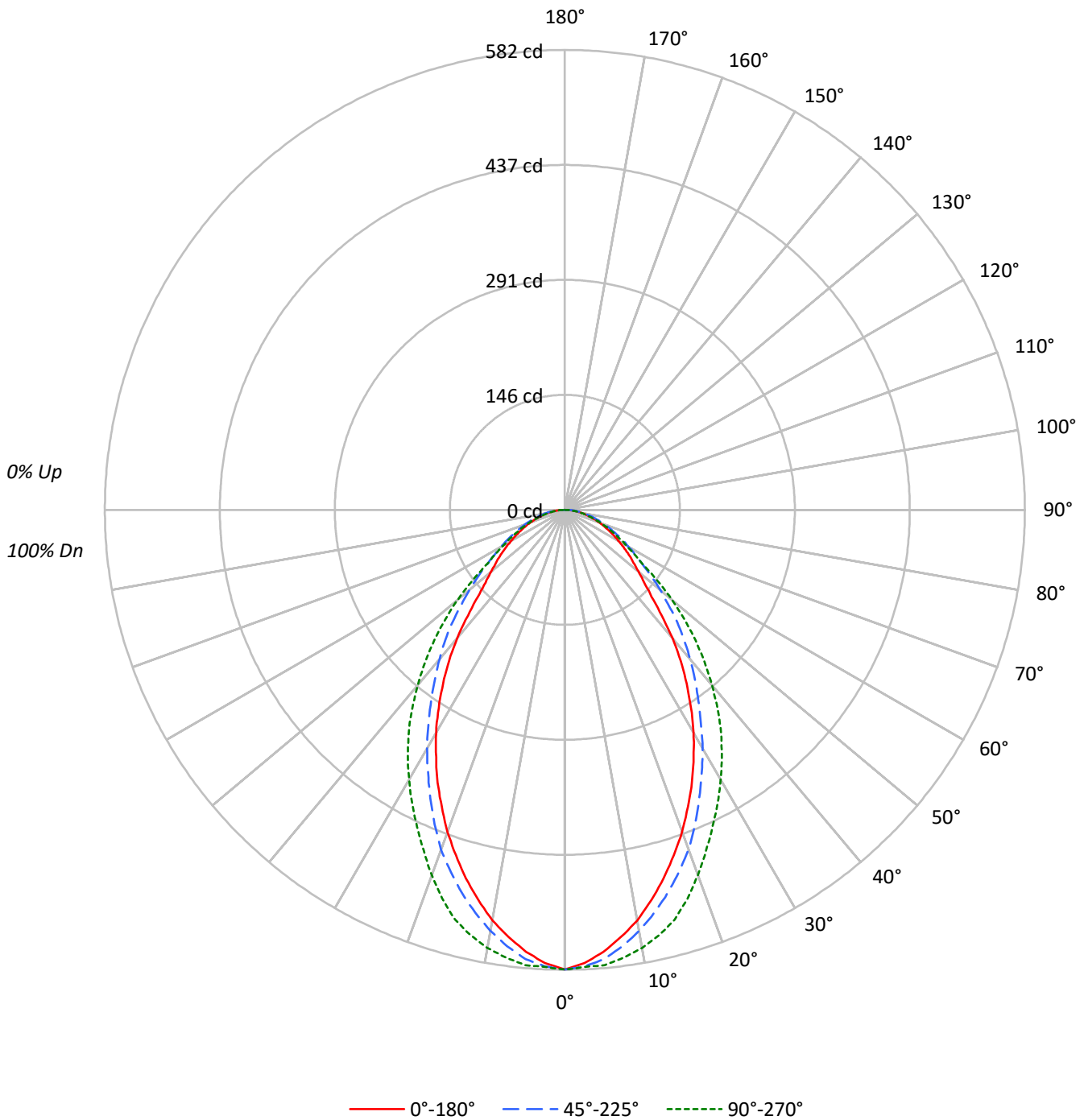
Lumens per Lamp: N/A
Luminaire Lumens: 947.0 lumens
Efficiency: N/A
Efficacy: 36.7 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 1.05 / 1.05
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	50	30	10
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°	10732	10732	10732
5°	10397	10569	10710
10°	9884	10137	10549
15°	9223	9594	10255
20°	8518	8984	9663
25°	7751	8197	9005
30°	6942	7428	8399
35°	6046	6636	7758
40°	5104	5938	6973
45°	4053	5243	6101
50°	3488	4507	5064
55°	3178	3857	3883
60°	2897	3425	3303
65°	2655	3096	2912
70°	2460	2870	2595
75°	2289	2709	2289
80°	2157	2603	2062
85°	2138	2689	1778

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 6101 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.7	5.7
10°-20°	141.9	15.0
20°-30°	186.8	19.7
30°-40°	187.8	19.8
40°-50°	152.2	16.1
50°-60°	104.8	11.1
60°-70°	68.6	7.2
70°-80°	38.2	4.0
80°-90°	12.9	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°	382.4	40.4
0°-40°	570.2	60.2
0°-60°	827.2	87.3
0°-90°	947.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	947.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	582	582	582	582	582	
5°	561	572	571	573	578	53
15°	483	495	502	521	537	135
25°	381	391	403	420	442	174
35°	268	281	295	321	344	167
45°	155	173	201	219	234	123
55°	99	110	120	122	121	89
65°	61	73	71	68	67	61
75°	32	40	38	34	32	34
85°	10	14	13	11	8	11
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	581.6	581.6	581.6	581.6	581.6
2.5°	574.0	584.1	578.2	578.2	579.0
5°	561.3	572.3	570.6	573.1	578.2
7.5°	545.3	557.1	557.1	564.7	571.4
10°	527.5	539.4	541.0	552.9	563.0
12.5°	505.6	517.4	522.5	537.7	551.2
15°	482.8	494.6	502.2	520.8	536.8
17.5°	458.3	470.1	480.3	499.7	515.7
20°	433.8	444.8	457.5	474.4	492.1
22.5°	406.8	418.7	430.5	446.5	466.8
25°	380.7	390.8	402.6	420.3	442.3
27.5°	352.8	363.8	374.8	395.9	418.7
30°	325.8	336.8	348.6	370.5	394.2
32.5°	297.1	308.9	320.7	345.2	369.7
35°	268.4	281.1	294.6	320.7	344.4
37.5°	240.6	254.1	270.1	297.1	317.4
40°	211.9	226.2	246.5	270.1	289.5
42.5°	181.5	199.2	223.7	243.9	261.7
45°	155.3	173.0	200.9	218.6	233.8
47.5°	135.9	150.2	177.3	192.4	205.1
50°	121.5	132.5	157.0	168.0	176.4
52.5°	109.7	120.7	137.6	145.2	147.7
55°	98.8	109.7	119.9	122.4	120.7
57.5°	87.8	99.6	105.5	103.0	103.0
60°	78.5	91.2	92.8	89.5	89.5
62.5°	69.2	81.9	81.9	77.7	77.7
65°	60.8	72.6	70.9	67.5	66.7
67.5°	53.2	64.1	61.6	58.2	57.4
70°	45.6	55.7	53.2	49.0	48.1
72.5°	38.8	48.1	44.7	41.4	39.7
75°	32.1	39.7	38.0	33.8	32.1
77.5°	26.2	32.1	30.4	27.0	25.3
80°	20.3	25.3	24.5	21.1	19.4
82.5°	15.2	19.4	18.6	16.0	13.5
85°	10.1	13.5	12.7	11.0	8.4
87.5°	5.1	9.3	8.4	7.6	4.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)