

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: P1058104

Luminaire Tested: S122RDR-S675D950-X4F0-XX-UDD-BVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1058104
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-21)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDR-S675D950-X4F0-XX-UDD-BVL-B
Description: DEFINE 2 BLACK REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

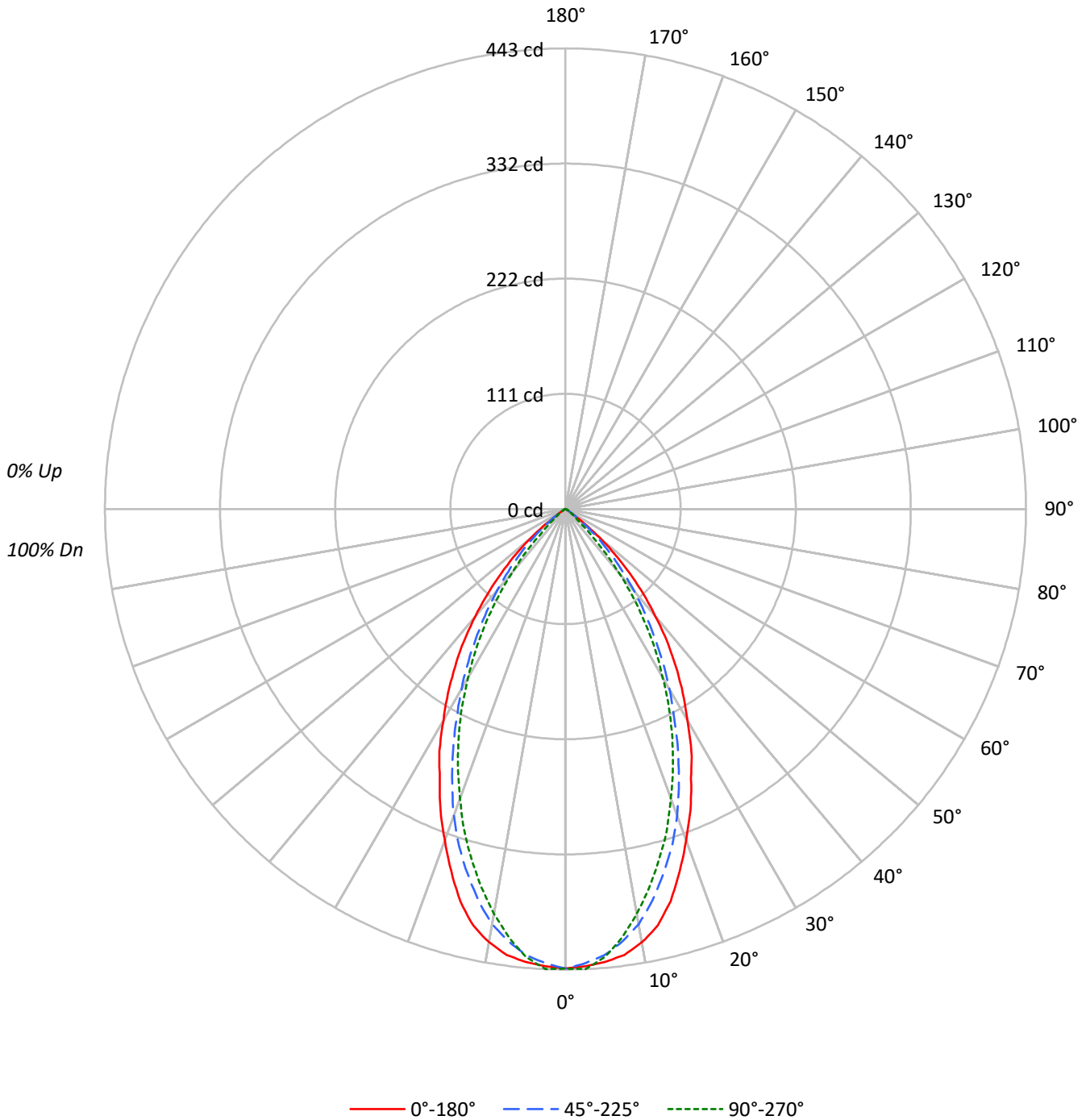
Lumens per Lamp: N/A
Luminaire Lumens: 415.7 lumens
Efficiency: N/A
Efficacy: 16.1 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.8 / 0.88
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

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	108	105	111	108	106	104	104	102	101	100	99	98	97	96	95	93
2	107	102	98	94	105	100	97	93	97	94	91	94	92	89	91	89	87	86
3	101	95	90	85	99	93	89	85	91	87	83	88	85	82	86	83	81	79
4	96	88	82	78	94	87	81	77	85	80	76	83	79	75	81	77	75	73
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	67
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62
7	81	71	65	61	80	71	65	61	69	64	60	68	63	60	67	63	60	58
8	77	67	61	56	76	66	60	56	65	60	56	64	59	56	63	59	56	54
9	73	63	57	53	72	62	57	52	61	56	52	61	56	52	60	55	52	51
10	69	59	53	49	68	59	53	49	58	53	49	57	52	49	56	52	49	47

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8156	8156	8156
5°	8102	7980	8015
10°	7931	7600	7407
15°	7462	6944	6659
20°	6661	6166	5816
25°	5823	5214	4947
30°	4999	4261	3982
35°	4167	3327	2989
40°	3242	2455	1913
45°	2268	1634	830
50°	1234	858	296
55°	180	299	209
60°	33	70	137
65°	0	39	83
70°	0	0	49
75°	0	0	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2268 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.6	9.8
10°-20°	102.4	24.6
20°-30°	119.3	28.7
30°-40°	95.6	23.0
40°-50°	47.5	11.4
50°-60°	9.4	2.3
60°-70°	0.8	0.2
70°-80°	0.1	0.0
80°-90°	0.0	0.0
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°	262.3	63.1
0°-40°	357.9	86.1
0°-60°	414.8	99.8
0°-90°	415.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	415.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	442	442	442	442	442	
5°	437	437	431	432	433	41
15°	391	383	364	354	349	108
25°	286	272	256	250	243	132
35°	185	166	148	141	133	115
45°	87	77	63	42	32	67
55°	6	11	9	6	6	11
65°	0	0	1	1	2	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	442.0	442.0	442.0	442.0	442.0
2.5°	440.2	442.0	437.4	442.0	443.0
5°	437.4	437.4	430.8	431.8	432.7
7.5°	432.7	430.8	419.6	417.7	415.9
10°	423.3	419.6	405.6	398.1	395.3
12.5°	410.3	404.7	386.0	377.5	372.9
15°	390.6	383.2	363.5	354.2	348.6
17.5°	365.4	358.9	340.2	329.9	324.3
20°	339.2	329.9	314.0	303.7	296.2
22.5°	314.0	301.9	285.0	277.6	270.1
25°	286.0	271.9	256.1	250.5	243.0
27.5°	262.6	244.8	226.2	222.4	215.9
30°	234.6	217.7	200.0	194.4	186.9
32.5°	210.3	191.6	173.8	167.3	160.7
35°	185.0	166.3	147.7	141.1	132.7
37.5°	160.7	143.0	124.3	114.0	106.5
40°	134.6	119.6	101.9	88.8	79.4
42.5°	111.2	98.1	81.3	64.5	55.1
45°	86.9	76.6	62.6	42.1	31.8
47.5°	64.5	57.0	45.8	24.3	16.8
50°	43.0	40.2	29.9	12.1	10.3
52.5°	23.4	25.2	17.8	7.5	8.4
55°	5.6	11.2	9.3	5.6	6.5
57.5°	0.9	1.9	4.7	4.7	4.7
60°	0.9	0.9	1.9	2.8	3.7
62.5°	0.9	0.0	0.9	1.9	2.8
65°	0.0	0.0	0.9	0.9	1.9
67.5°	0.0	0.0	0.0	0.9	0.9
70°	0.0	0.0	0.0	0.9	0.9
72.5°	0.0	0.0	0.0	0.0	0.9
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
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)