

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: P1059064

Luminaire Tested: S123RDR-S1000D935-X4F0-XX-UDD-WVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1059064
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-28)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDR-S1000D935-X4F0-XX-UDD-WVL-B
Description: DEFINE 3 BLACK REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

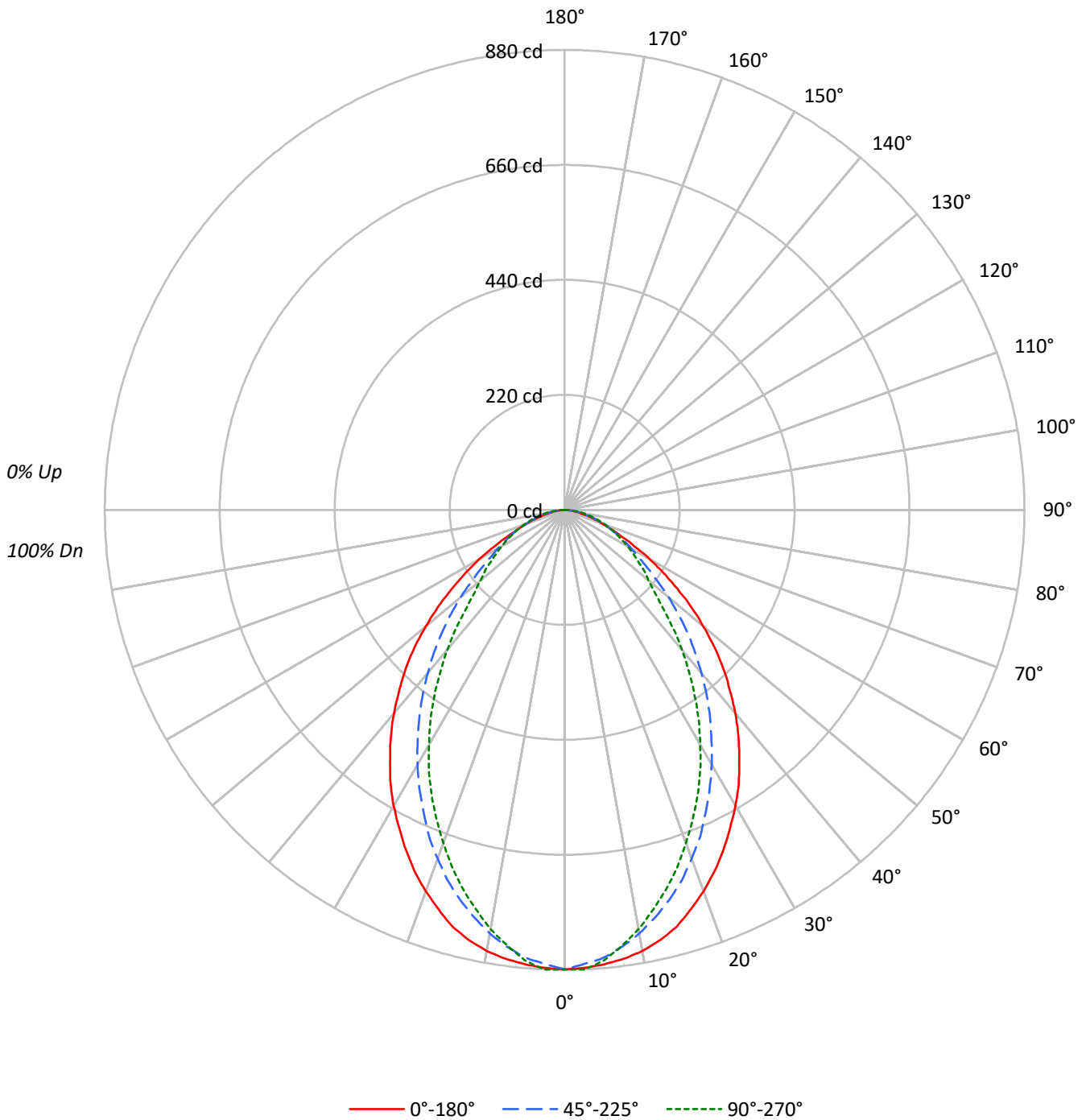
Lumens per Lamp: N/A
Luminaire Lumens: 1537.7 lumens
Efficiency: N/A
Efficacy: 43.9 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 0.95 / 1.09
Luminous Opening: Rectangular (W 0.23' x L: 4' x H: 0')
CIE Type: Direct

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

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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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100	
1	111	107	103	100	108	104	101	98	100	98	95	96	94	92	93	91	89	88			88	
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76			76	
3	94	85	78	73	92	84	77	72	81	75	71	78	73	69	76	72	68	66			66	
4	87	77	69	63	85	76	68	63	73	67	62	71	66	61	69	64	60	58			58	
5	81	70	62	56	79	69	61	56	67	60	55	65	59	54	63	58	54	52			52	
6	76	64	56	50	74	63	55	50	61	54	49	59	53	49	58	53	48	47			47	
7	71	58	50	45	69	58	50	45	56	49	44	55	49	44	53	48	44	42			42	
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40	38			38	
9	62	50	42	37	61	49	42	37	48	41	37	47	41	37	46	41	37	35			35	
10	58	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32			32	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10324	10324	10324
5°	10288	10139	10202
10°	10219	9815	9714
15°	10046	9391	9133
20°	9706	8873	8477
25°	9310	8270	7804
30°	8869	7636	7034
35°	8347	6952	6226
40°	7792	6236	5362
45°	7142	5510	4404
50°	6332	4730	3822
55°	5386	3959	3505
60°	4392	3450	3250
65°	3348	3054	3023
70°	2613	2723	2829
75°	2110	2445	2636
80°	1569	2002	2428
85°	849	1280	2142

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7142 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.6	5.3
10°-20°	219.6	14.3
20°-30°	298.5	19.4
30°-40°	309.4	20.1
40°-50°	261.0	17.0
50°-60°	185.2	12.0
60°-70°	113.2	7.4
70°-80°	56.3	3.7
80°-90°	12.8	0.8
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°	599.7	39.0
0°-40°	909.1	59.1
0°-60°	1355.3	88.1
0°-90°	1537.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1537.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	879	879	879	879	879	
5°	873	873	860	866	866	83
15°	826	810	772	759	751	232
25°	719	687	638	615	602	330
35°	582	538	485	451	434	364
45°	430	385	332	286	265	330
55°	263	236	193	176	171	236
65°	120	116	110	110	109	123
75°	46	50	54	56	58	50
85°	6	7	10	14	16	9
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	879.2	879.2	879.2	879.2	879.2
2.5°	877.1	878.1	869.7	879.2	880.2
5°	872.8	872.8	860.2	865.5	865.5
7.5°	866.5	864.4	843.3	843.3	841.1
10°	857.0	850.7	823.2	817.9	814.7
12.5°	843.3	832.7	798.9	789.4	783.0
15°	826.4	810.5	772.5	758.7	751.3
17.5°	802.0	786.2	743.9	724.9	716.5
20°	776.7	753.4	710.1	691.1	678.4
22.5°	749.2	719.6	677.4	654.1	640.4
25°	718.6	686.9	638.3	615.0	602.3
27.5°	685.8	650.9	601.3	574.9	562.2
30°	654.1	614.0	563.2	533.6	518.8
32.5°	620.3	574.9	523.1	492.4	477.6
35°	582.3	537.9	485.0	451.2	434.3
37.5°	546.3	500.9	445.9	410.0	391.0
40°	508.3	462.8	406.8	369.9	349.8
42.5°	468.1	424.8	369.9	326.5	307.5
45°	430.1	384.6	331.8	286.4	265.2
47.5°	388.9	346.6	294.8	248.3	233.5
50°	346.6	307.5	258.9	216.6	209.2
52.5°	305.4	272.6	223.0	195.5	192.3
55°	263.1	235.6	193.4	176.5	171.2
57.5°	224.0	203.9	165.9	157.5	155.3
60°	187.0	170.1	146.9	141.6	138.4
62.5°	151.1	141.6	127.9	125.7	123.6
65°	120.5	116.2	109.9	109.9	108.8
67.5°	95.1	95.1	94.0	96.2	95.1
70°	76.1	77.1	79.3	81.4	82.4
72.5°	60.2	63.4	65.5	68.7	69.7
75°	46.5	49.7	53.9	56.0	58.1
77.5°	33.8	37.0	41.2	44.4	46.5
80°	23.2	25.4	29.6	33.8	35.9
82.5°	14.8	15.9	19.0	23.2	25.4
85°	6.3	7.4	9.5	13.7	15.9
87.5°	0.0	0.0	1.1	4.2	7.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)