

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: P1059051

Luminaire Tested: S123RDR-S1000D930-X4F0-XX-UDD-BVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1059051
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-66)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDR-S1000D930-X4F0-XX-UDD-BVL-W
Description: DEFINE 3 WHITE REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

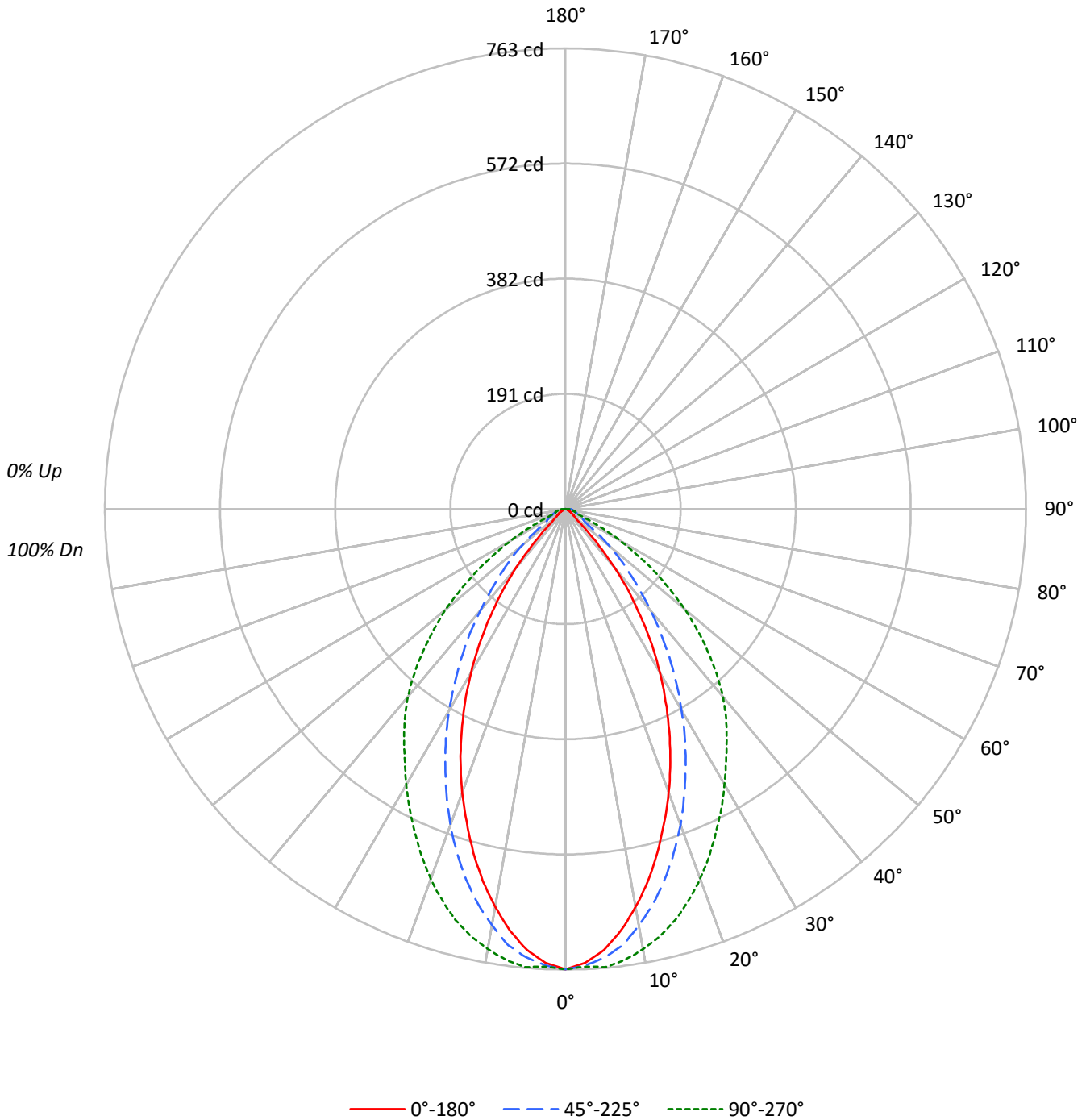
Lumens per Lamp: N/A
Luminaire Lumens: 915.6 lumens
Efficiency: N/A
Efficacy: 26.2 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.06 / 0.94
Luminous Opening: Rectangular (W 0.23' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1059051

CATALOG NUMBER: S123RDR-S1000D930-X4F0-XX-UDD-BVL-W

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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90
2	105	99	94	90	102	97	92	88	94	90	87	91	87	85	88	85	83	81
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73
4	92	83	76	71	90	81	75	70	79	74	70	77	72	69	75	71	68	66
5	86	76	69	64	84	75	69	64	73	67	63	71	66	62	70	65	62	60
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	57	55
7	76	65	58	53	75	65	58	53	63	57	53	62	56	52	61	56	52	50
8	72	61	54	49	70	60	53	49	59	53	49	58	52	48	57	52	48	47
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43
10	64	53	46	42	63	53	46	42	52	46	42	51	45	42	50	45	42	40

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8956	8956	8956
5°	8647	8789	8978
10°	7983	8352	8831
15°	7164	7724	8564
20°	6249	6963	8152
25°	5272	6102	7648
30°	4240	5218	7148
35°	3103	4296	6680
40°	1936	3349	6222
45°	732	2496	5542
50°	347	1721	4724
55°	266	944	3652
60°	188	801	2400
65°	139	697	1003
70°	137	652	652
75°	181	681	681
80°	270	811	744
85°	539	1347	1078

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5542 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.0	7.6
10°-20°	179.5	19.6
20°-30°	222.2	24.3
30°-40°	199.2	21.8
40°-50°	130.6	14.3
50°-60°	65.4	7.1
60°-70°	25.5	2.8
70°-80°	14.3	1.6
80°-90°	8.8	1.0
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°	471.7	51.5
0°-40°	671.0	73.3
0°-60°	866.9	94.7
0°-90°	915.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	915.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	763	763	763	763	763	
5°	734	746	746	754	762	68
15°	589	613	635	678	704	164
25°	407	432	471	538	590	186
35°	216	246	300	390	466	135
45°	44	71	150	258	334	42
55°	13	16	46	126	178	12
65°	5	15	25	33	36	5
75°	4	15	15	15	15	4
85°	4	10	10	10	8	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	762.7	762.7	762.7	762.7	762.7
2.5°	752.6	763.7	756.7	757.7	758.7
5°	733.6	745.6	745.6	753.6	761.7
7.5°	704.5	718.6	728.6	742.6	753.6
10°	669.5	686.5	700.5	725.6	740.6
12.5°	631.4	652.4	670.5	703.5	724.6
15°	589.3	613.3	635.4	677.5	704.5
17.5°	544.2	568.2	597.3	646.4	679.5
20°	500.1	524.1	557.2	612.3	652.4
22.5°	454.0	479.0	514.1	575.3	622.4
25°	406.9	431.9	471.0	538.2	590.3
27.5°	359.8	384.8	428.9	502.1	559.2
30°	312.7	337.7	384.8	463.0	527.2
32.5°	265.6	292.6	341.7	426.9	495.1
35°	216.5	245.5	299.7	389.9	466.0
37.5°	171.4	198.4	259.6	357.8	437.0
40°	126.3	155.3	218.5	326.7	405.9
42.5°	82.2	113.2	181.4	292.6	370.8
45°	44.1	71.2	150.3	257.6	333.7
47.5°	24.1	39.1	121.3	220.5	295.6
50°	19.0	22.0	94.2	188.4	258.6
52.5°	16.0	18.0	67.1	158.3	217.5
55°	13.0	16.0	46.1	126.3	178.4
57.5°	11.0	14.0	36.1	98.2	139.3
60°	8.0	12.0	34.1	72.2	102.2
62.5°	6.0	13.0	30.1	50.1	67.1
65°	5.0	15.0	25.1	33.1	36.1
67.5°	4.0	16.0	22.0	21.0	21.0
70°	4.0	15.0	19.0	18.0	19.0
72.5°	4.0	16.0	17.0	16.0	17.0
75°	4.0	15.0	15.0	15.0	15.0
77.5°	4.0	14.0	14.0	13.0	13.0
80°	4.0	12.0	12.0	12.0	11.0
82.5°	4.0	11.0	11.0	11.0	9.0
85°	4.0	10.0	10.0	10.0	8.0
87.5°	3.0	9.0	10.0	9.0	6.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)