

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: P1059045

Luminaire Tested: S123RDR-S1000D927-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1059045
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-65)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDR-S1000D927-X4F0-XX-UDD-SVL-W
Description: DEFINE 3 WHITE REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

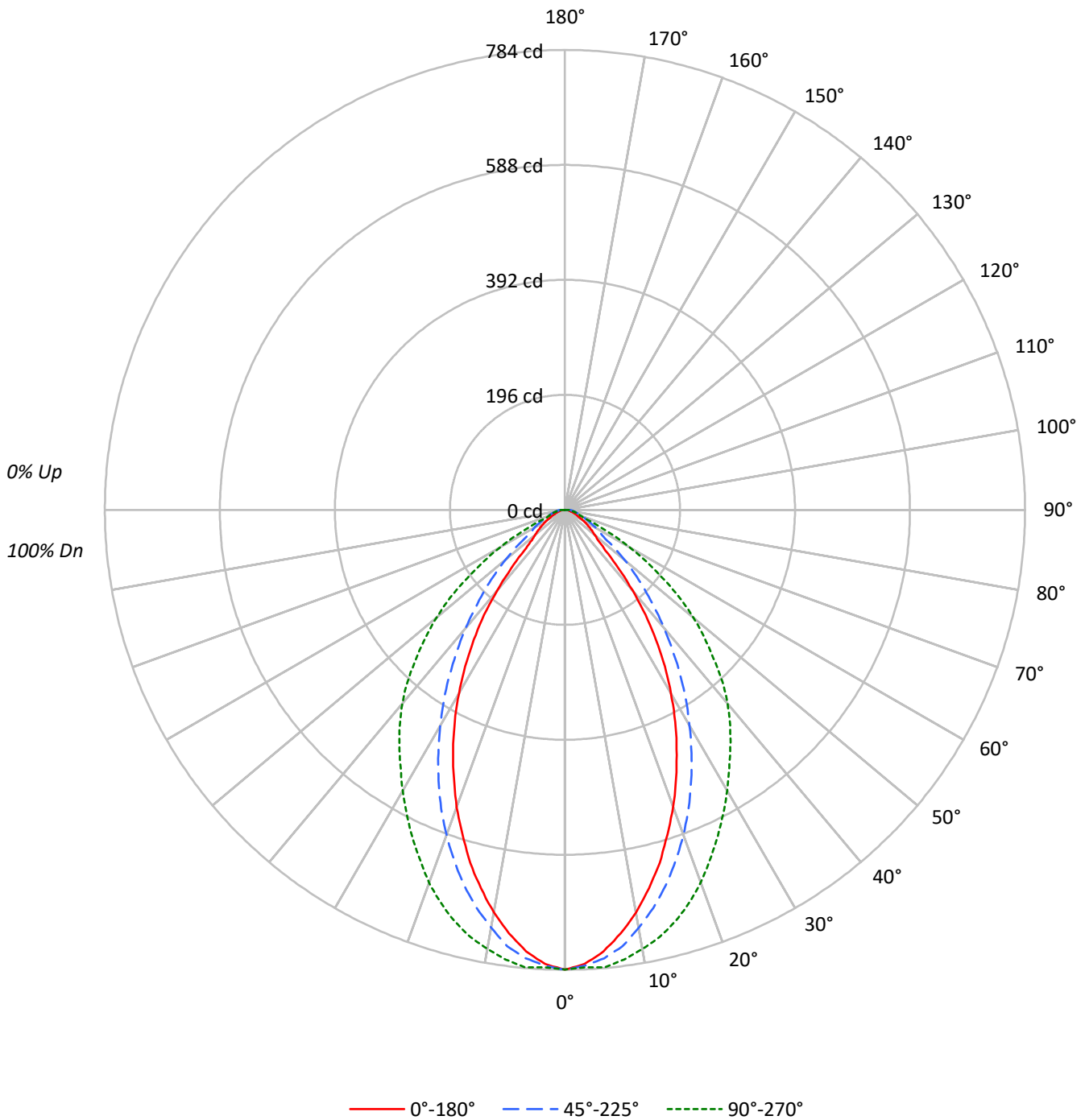
Lumens per Lamp: N/A
Luminaire Lumens: 1052.1 lumens
Efficiency: N/A
Efficacy: 30.1 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.08 / 0.98
Luminous Opening: Rectangular (W 0.23' x L: 4' x H: 0')
CIE Type: Direct

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	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89			89	
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79			79	
3	97	89	82	77	95	87	81	77	84	79	75	82	78	74	79	76	73	71			71	
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	66	64			64	
5	85	74	67	61	83	73	66	61	71	65	60	69	64	60	68	63	59	58			58	
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52			52	
7	74	63	56	51	73	62	55	50	61	55	50	60	54	50	58	53	49	48			48	
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44			44	
9	66	54	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	40			40	
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37			37	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9203	9203	9203
5°	8905	9043	9226
10°	8312	8624	9065
15°	7575	8060	8829
20°	6739	7373	8455
25°	5839	6597	7972
30°	4898	5756	7498
35°	3879	4898	7047
40°	2745	4030	6611
45°	1617	3185	5950
50°	1209	2419	5210
55°	1017	1634	4185
60°	822	1395	2973
65°	650	1189	1570
70°	570	1037	968
75°	531	971	926
80°	527	1055	920
85°	660	1576	1186

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5950 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.1	6.9
10°-20°	187.5	17.8
20°-30°	238.7	22.7
30°-40°	224.5	21.3
40°-50°	161.7	15.4
50°-60°	93.4	8.9
60°-70°	42.7	4.1
70°-80°	21.3	2.0
80°-90°	10.1	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°	498.3	47.4
0°-40°	722.8	68.7
0°-60°	978.0	93.0
0°-90°	1052.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1052.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	784	784	784	784	784	
5°	756	768	767	775	783	70
15°	623	646	663	700	726	174
25°	451	474	509	566	615	206
35°	271	294	342	421	492	168
45°	97	122	192	288	358	82
55°	50	52	80	152	204	45
65°	23	33	43	48	56	24
75°	12	22	21	20	20	12
85°	5	11	12	11	9	5
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	783.7	783.7	783.7	783.7	783.7
2.5°	774.9	784.7	777.9	778.8	780.8
5°	755.5	768.1	767.2	774.9	782.7
7.5°	728.2	742.8	750.6	762.3	773.0
10°	697.1	713.6	723.3	744.8	760.3
12.5°	661.0	682.5	695.1	723.3	745.7
15°	623.1	645.5	663.0	700.0	726.3
17.5°	580.2	604.6	627.0	670.8	702.9
20°	539.3	562.7	590.0	637.7	676.6
22.5°	494.6	519.9	551.0	601.6	645.5
25°	450.7	474.1	509.2	565.6	615.3
27.5°	406.9	430.3	467.3	529.6	584.1
30°	361.2	385.5	424.5	493.6	553.0
32.5°	316.4	339.8	383.6	458.5	520.8
35°	270.6	294.0	341.7	420.6	491.6
37.5°	225.9	250.2	300.8	389.4	462.4
40°	179.1	205.4	262.9	357.3	431.3
42.5°	135.3	163.6	224.9	324.2	397.2
45°	97.4	121.7	191.8	288.2	358.3
47.5°	75.9	88.6	161.6	251.2	322.2
50°	66.2	68.1	132.4	217.1	285.2
52.5°	57.4	59.4	104.2	185.0	246.3
55°	49.7	51.6	79.8	151.9	204.4
57.5°	41.9	44.8	66.2	120.7	164.5
60°	35.0	38.9	59.4	92.5	126.6
62.5°	28.2	35.0	50.6	68.1	90.5
65°	23.4	33.1	42.8	47.7	56.5
67.5°	19.5	30.2	36.0	34.1	33.1
70°	16.6	27.3	30.2	27.3	28.2
72.5°	13.6	25.3	25.3	23.4	23.4
75°	11.7	22.4	21.4	20.4	20.4
77.5°	9.7	19.5	18.5	17.5	16.6
80°	7.8	15.6	15.6	14.6	13.6
82.5°	6.8	12.7	12.7	12.7	10.7
85°	4.9	10.7	11.7	10.7	8.8
87.5°	3.9	9.7	9.7	8.8	5.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)