

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: P1059381

Luminaire Tested: S123RDR-S775D930-X4F0-XX-UDD-WVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1059381
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-64)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDR-S775D930-X4F0-XX-UDD-WVL-W
Description: DEFINE 3 WHITE REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

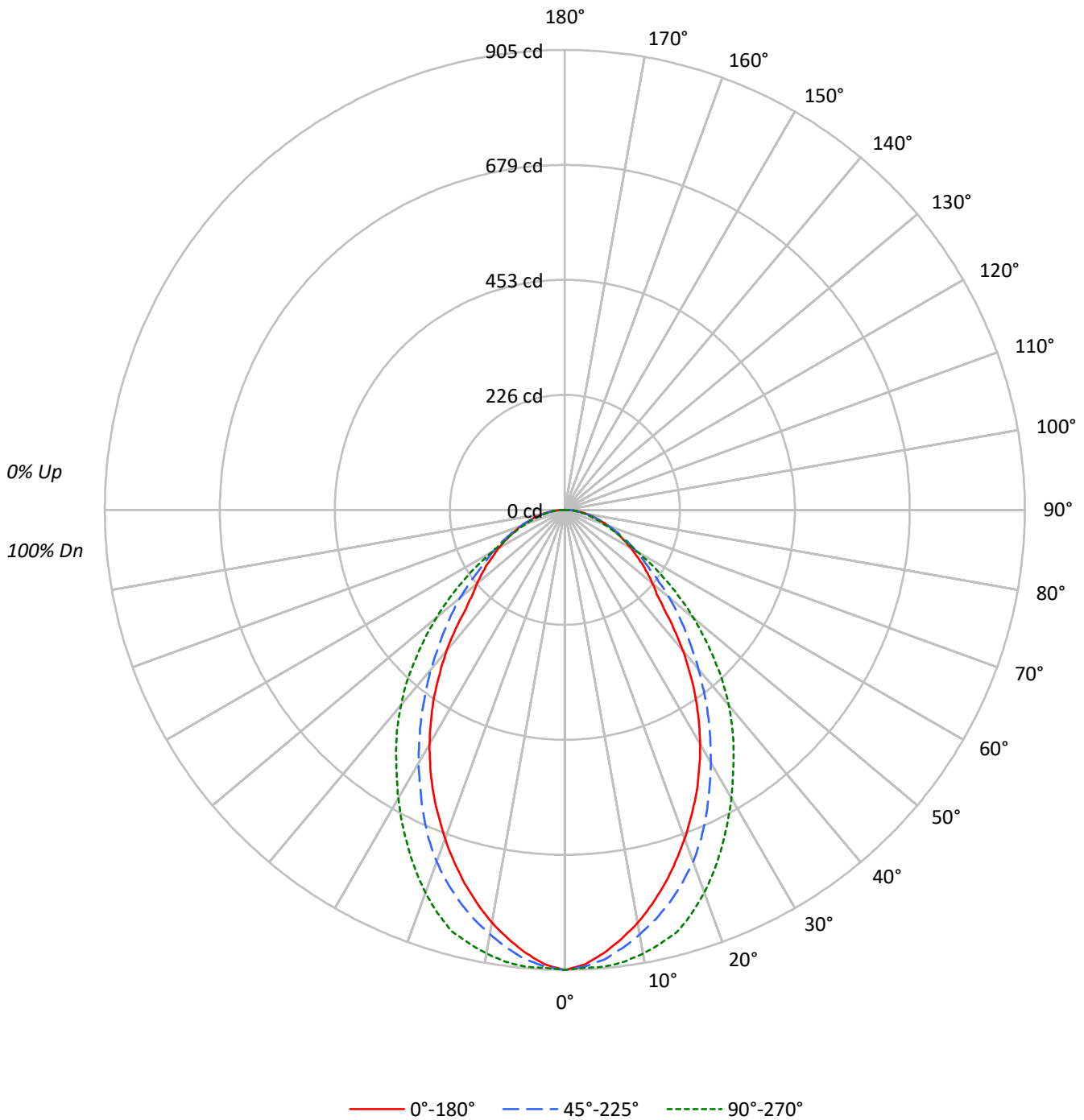
Lumens per Lamp: N/A
Luminaire Lumens: 1591.0 lumens
Efficiency: N/A
Efficacy: 61.7 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.1 / 1.09
Luminous Opening: Rectangular (W 0.23' x L: 4' x H: 0')
CIE Type: Direct

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	110	106	102	99	108	104	101	97	100	97	94	96	94	92	92	91	89	87
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75
3	94	85	77	72	92	83	76	71	80	75	70	78	73	69	75	71	68	66
4	87	76	69	63	85	75	68	62	73	66	61	70	65	61	68	64	60	58
5	81	69	61	55	79	68	61	55	66	59	54	64	58	54	62	57	53	51
6	75	63	55	49	73	62	55	49	61	54	49	59	53	48	57	52	48	46
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	48	43	41
8	66	53	46	40	64	53	45	40	51	45	40	50	44	40	49	44	39	38
9	62	49	42	37	60	49	42	37	48	41	36	47	41	36	46	40	36	34
10	58	46	39	34	57	45	38	34	45	38	34	44	38	33	43	37	33	32

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10632	10632	10632
5°	10323	10471	10636
10°	9839	10117	10573
15°	9255	9710	10439
20°	8607	9211	10019
25°	7945	8541	9470
30°	7216	7796	8885
35°	6422	7037	8298
40°	5541	6271	7692
45°	4580	5551	6897
50°	4114	4896	6021
55°	3812	4178	4993
60°	3513	3807	3826
65°	3270	3443	3204
70°	3076	3131	2808
75°	2899	2795	2473
80°	2739	2529	2319
85°	2627	2829	2627

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 6897 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.9	5.3
10°-20°	225.9	14.2
20°-30°	305.6	19.2
30°-40°	314.1	19.7
40°-50°	263.8	16.6
50°-60°	189.1	11.9
60°-70°	120.4	7.6
70°-80°	66.2	4.2
80°-90°	22.1	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°	615.4	38.7
0°-40°	929.5	58.4
0°-60°	1382.4	86.9
0°-90°	1591.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1591.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	905	905	905	905	905	
5°	876	891	888	894	902	82
15°	761	782	799	833	859	213
25°	613	637	659	695	731	281
35°	448	472	491	534	579	279
45°	276	300	334	383	415	218
55°	186	190	204	231	244	166
65°	118	125	124	117	115	117
75°	64	70	62	57	54	68
85°	20	20	21	22	20	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	905.4	905.4	905.4	905.4	905.4
2.5°	895.3	907.8	899.2	900.0	902.3
5°	875.8	891.4	888.3	894.5	902.3
7.5°	851.7	868.8	869.6	884.4	896.8
10°	825.2	843.1	848.5	871.1	886.7
12.5°	794.0	813.5	825.2	853.2	873.5
15°	761.3	782.3	798.7	833.0	858.7
17.5°	725.4	748.0	769.1	805.7	832.2
20°	688.8	713.0	737.1	771.4	801.8
22.5°	650.6	675.6	700.5	734.0	767.5
25°	613.2	636.6	659.2	695.0	730.9
27.5°	572.7	596.9	616.3	656.1	693.5
30°	532.2	556.3	575.0	616.3	655.3
32.5°	490.1	515.0	532.2	575.0	615.6
35°	448.0	472.2	490.9	534.5	578.9
37.5°	403.6	430.1	448.8	497.9	541.5
40°	361.5	386.5	409.1	460.5	501.8
42.5°	317.9	343.6	369.3	422.3	460.5
45°	275.8	300.0	334.3	382.6	415.3
47.5°	245.4	261.0	300.8	341.3	372.5
50°	225.2	231.4	268.0	303.9	329.6
52.5°	204.9	209.6	234.5	267.3	286.7
55°	186.2	190.1	204.1	231.4	243.9
57.5°	166.0	169.9	181.6	197.1	204.1
60°	149.6	152.7	162.1	164.4	162.9
62.5°	133.2	137.9	142.6	137.1	134.8
65°	117.7	124.7	123.9	116.9	115.3
67.5°	103.6	110.6	106.7	99.7	97.4
70°	89.6	96.6	91.2	84.2	81.8
72.5°	76.4	84.2	75.6	69.3	67.8
75°	63.9	70.1	61.6	56.9	54.5
77.5°	52.2	56.9	49.1	45.2	43.6
80°	40.5	43.6	37.4	35.1	34.3
82.5°	29.6	31.2	27.3	28.8	28.1
85°	19.5	20.3	21.0	21.8	19.5
87.5°	9.4	13.2	13.2	12.5	10.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)