

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: P1059380

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1059380
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-67)
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-S
Description: DEFINE 3 SILVER REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

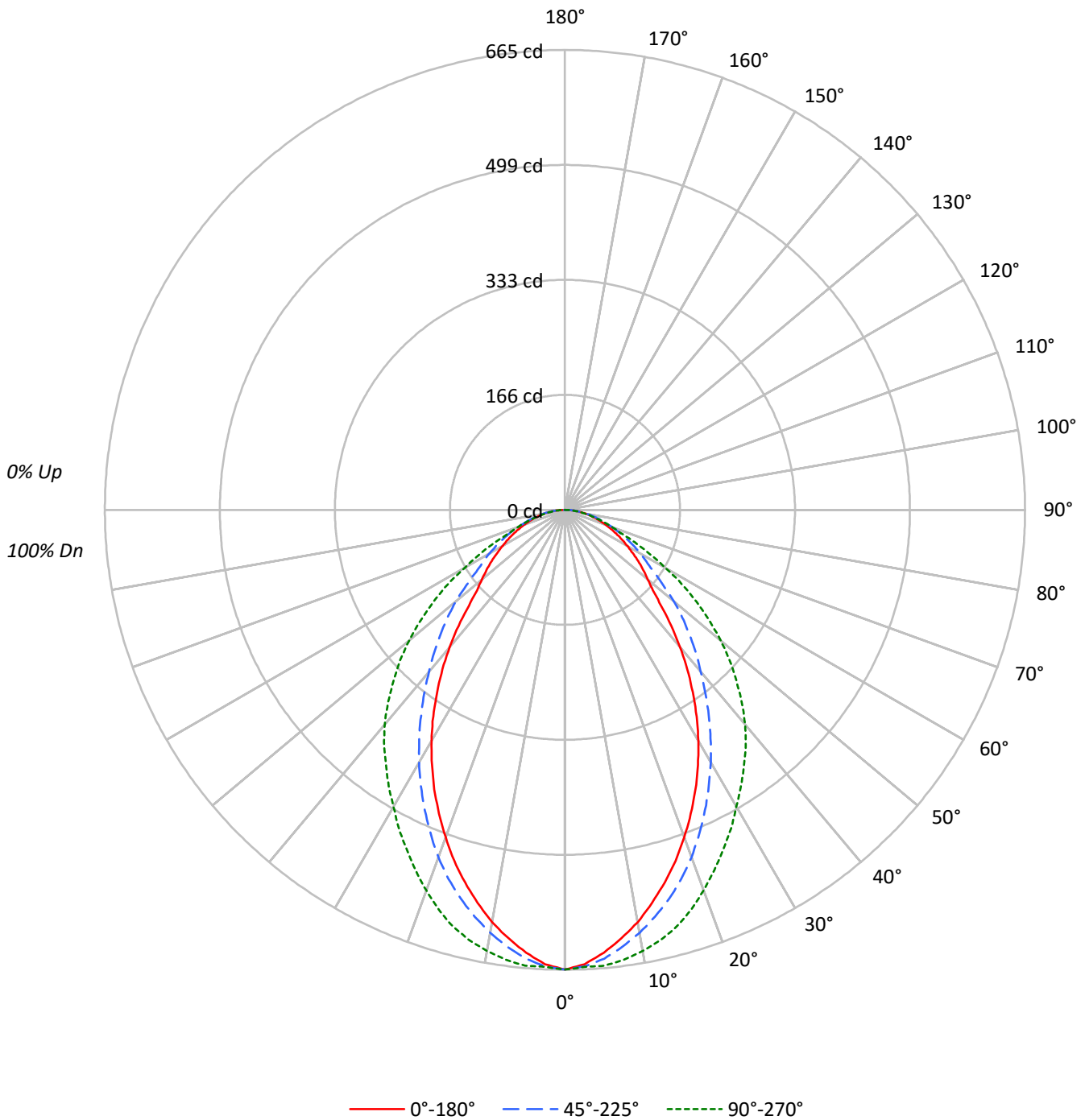
Lumens per Lamp: N/A
Luminaire Lumens: 1200.5 lumens
Efficiency: N/A
Efficacy: 46.5 lumens/watt
Spacing Criteria (0/90/45): 0.93 / 1.12 / 1.1
Luminous Opening: Rectangular (W 0.23' x L: 4' x H: 0')
CIE Type: Direct

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	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	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87			87	
2	102	94	88	83	99	92	87	82	89	84	80	86	82	78	83	80	77	75			75	
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	65			65	
4	87	76	68	62	84	74	67	61	72	66	61	70	64	60	68	63	59	57			57	
5	80	69	60	54	78	68	60	54	66	59	54	64	58	53	62	57	53	51			51	
6	75	63	54	48	73	62	54	48	60	53	48	58	52	47	57	51	47	45			45	
7	70	57	49	44	68	56	49	43	55	48	43	54	47	43	52	47	43	41			41	
8	65	53	45	39	64	52	45	39	51	44	39	50	43	39	48	43	39	37			37	
9	61	49	41	36	60	48	41	36	47	40	36	46	40	36	45	39	35	34			34	
10	58	45	38	33	56	45	38	33	44	37	33	43	37	33	42	37	33	31			31	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7804	7804	7804
5°	7577	7678	7797
10°	7219	7405	7721
15°	6782	7075	7587
20°	6299	6679	7321
25°	5784	6209	7016
30°	5230	5715	6718
35°	4613	5194	6466
40°	3966	4681	6210
45°	3260	4218	5822
50°	2861	3758	5365
55°	2647	3206	4754
60°	2433	2945	3934
65°	2273	2706	3095
70°	2139	2462	2462
75°	2014	2264	2119
80°	1893	2056	1792
85°	1778	1994	1361

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5822 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.5	5.1
10°-20°	164.7	13.7
20°-30°	223.4	18.6
30°-40°	233.5	19.5
40°-50°	202.5	16.9
50°-60°	150.7	12.6
60°-70°	96.7	8.1
70°-80°	51.8	4.3
80°-90°	15.7	1.3
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°	449.6	37.4
0°-40°	683.1	56.9
0°-60°	1036.3	86.3
0°-90°	1200.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1200.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	665	665	665	665	665	
5°	643	654	651	656	662	60
15°	558	571	582	605	624	156
25°	446	460	479	511	542	205
35°	322	337	362	408	451	201
45°	196	211	254	308	351	154
55°	129	132	157	201	232	116
65°	82	89	97	104	111	81
75°	44	51	50	48	47	47
85°	13	16	15	12	10	15
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	664.6	664.6	664.6	664.6	664.6
2.5°	657.6	666.9	660.7	660.7	661.5
5°	642.8	653.7	651.4	656.0	661.5
7.5°	624.9	636.6	637.3	648.2	656.0
10°	605.4	617.1	621.0	636.6	647.5
12.5°	582.0	595.3	602.3	621.7	637.3
15°	557.9	571.1	582.0	605.4	624.1
17.5°	532.1	545.4	559.4	585.9	606.2
20°	504.1	518.1	534.5	561.0	585.9
22.5°	475.3	490.1	507.2	536.0	564.1
25°	446.4	460.5	479.2	511.1	541.5
27.5°	416.1	430.9	450.3	485.4	519.7
30°	385.7	400.5	421.5	458.9	495.5
32.5°	354.5	369.3	391.9	434.0	473.7
35°	321.8	337.4	362.3	408.3	451.1
37.5°	290.6	305.4	333.5	384.1	429.3
40°	258.7	274.3	305.4	360.0	405.1
42.5°	227.5	243.1	279.7	334.2	378.7
45°	196.3	211.1	254.0	308.5	350.6
47.5°	172.2	183.1	229.8	281.3	323.3
50°	156.6	160.5	205.7	254.8	293.7
52.5°	142.6	145.7	179.2	228.3	263.3
55°	129.3	132.5	156.6	201.0	232.2
57.5°	116.1	120.0	139.5	173.0	201.0
60°	103.6	108.3	125.4	148.0	167.5
62.5°	92.7	98.2	111.4	125.4	138.7
65°	81.8	88.8	97.4	103.6	111.4
67.5°	71.7	79.5	84.1	85.7	86.5
70°	62.3	70.1	71.7	71.7	71.7
72.5°	53.0	61.6	60.0	59.2	58.4
75°	44.4	51.4	49.9	47.5	46.7
77.5°	35.8	42.1	39.7	38.2	35.8
80°	28.0	32.7	30.4	28.8	26.5
82.5°	21.0	24.2	21.8	20.3	17.9
85°	13.2	16.4	14.8	12.5	10.1
87.5°	7.0	9.3	7.8	7.0	3.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)