

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: P1057836

Luminaire Tested: S122RDR-S1005D930-X4F0-XX-UDD-BVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1057836
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-57)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDR-S1005D930-X4F0-XX-UDD-BVL-W
Description: DEFINE 2 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

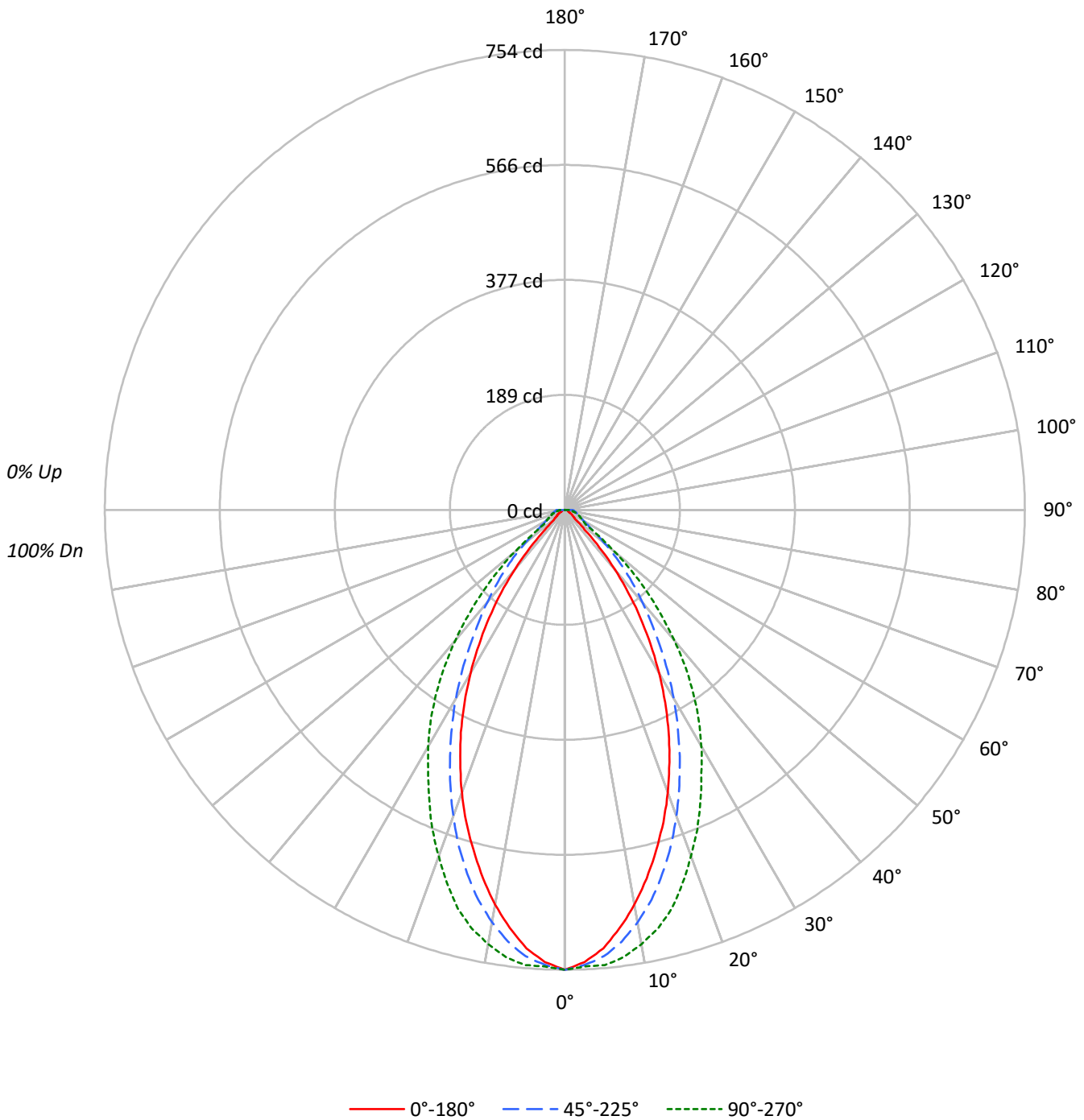
Lumens per Lamp: N/A
Luminaire Lumens: 820.7 lumens
Efficiency: N/A
Efficacy: 19.6 lumens/watt
Spacing Criteria (0/90/45): 0.78 / 0.96 / 0.91
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.8
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

TEST NUMBER: P1057836

CATALOG NUMBER: S122RDR-S1005D930-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	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	97	98	96	95	95	93	92	90				
2	105	99	94	90	102	97	92	89	94	90	87	91	87	85	88	85	83	81				
3	98	91	85	80	96	89	84	79	86	82	78	84	80	76	81	78	75	74				
4	92	83	77	72	90	82	76	71	80	75	70	78	73	70	76	72	69	67				
5	87	77	70	65	85	76	70	65	74	69	64	72	67	64	71	66	63	61				
6	82	72	65	60	80	71	64	59	69	63	59	68	62	58	66	62	58	56				
7	77	67	60	55	76	66	59	55	64	59	54	63	58	54	62	57	54	52				
8	73	62	55	51	72	62	55	51	60	54	50	59	54	50	58	53	50	48				
9	69	58	52	47	68	58	51	47	57	51	47	56	50	47	55	50	46	45				
10	66	55	48	44	64	54	48	44	53	48	44	53	47	43	52	47	43	42				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13915	13915	13915
5°	13364	13611	13877
10°	12320	12863	13541
15°	11040	11800	12929
20°	9691	10496	11870
25°	8205	9064	10709
30°	6582	7609	9537
35°	4866	6089	8263
40°	3052	4767	6713
45°	1195	3588	4974
50°	588	2426	3049
55°	466	1592	1358
60°	358	1292	1247
65°	262	1209	1209
70°	324	1235	1235
75°	342	1376	1290
80°	510	1796	1413
85°	1016	3070	2054

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 87.5°
 Luminance: 5626 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.9	8.4
10°-20°	174.1	21.2
20°-30°	208.3	25.4
30°-40°	175.3	21.4
40°-50°	99.8	12.2
50°-60°	39.4	4.8
60°-70°	24.8	3.0
70°-80°	18.4	2.2
80°-90°	11.7	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°	451.3	55.0
0°-40°	626.6	76.3
0°-60°	765.8	93.3
0°-90°	820.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	820.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	754	754	754	754	754	
5°	722	737	735	743	749	67
15°	578	598	618	654	677	161
25°	403	421	445	491	526	184
35°	216	235	270	328	367	134
45°	46	81	138	172	191	43
55°	14	31	50	51	42	13
65°	6	28	28	26	28	7
75°	5	19	19	18	18	5
85°	5	13	14	13	10	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	754.1	754.1	754.1	754.1	754.1
2.5°	742.0	755.3	746.8	748.0	749.2
5°	721.5	737.2	734.8	743.2	749.2
7.5°	691.3	708.2	714.2	728.7	739.6
10°	657.5	676.8	686.5	709.4	722.7
12.5°	618.9	640.6	655.1	684.1	703.4
15°	577.9	598.4	617.7	653.9	676.8
17.5°	536.9	557.4	577.9	617.7	641.9
20°	493.5	512.8	534.5	576.7	604.5
22.5°	447.6	468.1	489.8	533.3	567.1
25°	403.0	421.1	445.2	491.0	526.0
27.5°	355.9	374.0	400.6	447.6	485.0
30°	308.9	327.0	357.1	405.4	447.6
32.5°	261.8	281.1	313.7	366.8	409.0
35°	216.0	235.3	270.3	328.2	366.8
37.5°	171.3	193.0	231.6	288.4	324.5
40°	126.7	152.0	197.9	248.5	278.7
42.5°	84.5	115.8	166.5	208.7	234.1
45°	45.8	80.8	137.5	172.5	190.6
47.5°	25.3	51.9	109.8	137.5	148.4
50°	20.5	36.2	84.5	105.0	106.2
52.5°	16.9	32.6	62.7	74.8	68.8
55°	14.5	31.4	49.5	50.7	42.2
57.5°	12.1	30.2	41.0	36.2	36.2
60°	9.7	30.2	35.0	32.6	33.8
62.5°	7.2	30.2	31.4	29.0	30.2
65°	6.0	27.7	27.7	26.5	27.7
67.5°	6.0	25.3	25.3	24.1	25.3
70°	6.0	24.1	22.9	22.9	22.9
72.5°	4.8	21.7	21.7	20.5	20.5
75°	4.8	19.3	19.3	18.1	18.1
77.5°	4.8	18.1	18.1	16.9	15.7
80°	4.8	15.7	16.9	15.7	13.3
82.5°	4.8	14.5	15.7	14.5	10.9
85°	4.8	13.3	14.5	13.3	9.7
87.5°	3.6	13.3	13.3	10.9	7.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)