

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: P1057827

Luminaire Tested: S122RDR-S1005D927-X4F0-XX-UDD-BVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1057827
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-S1005D927-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: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

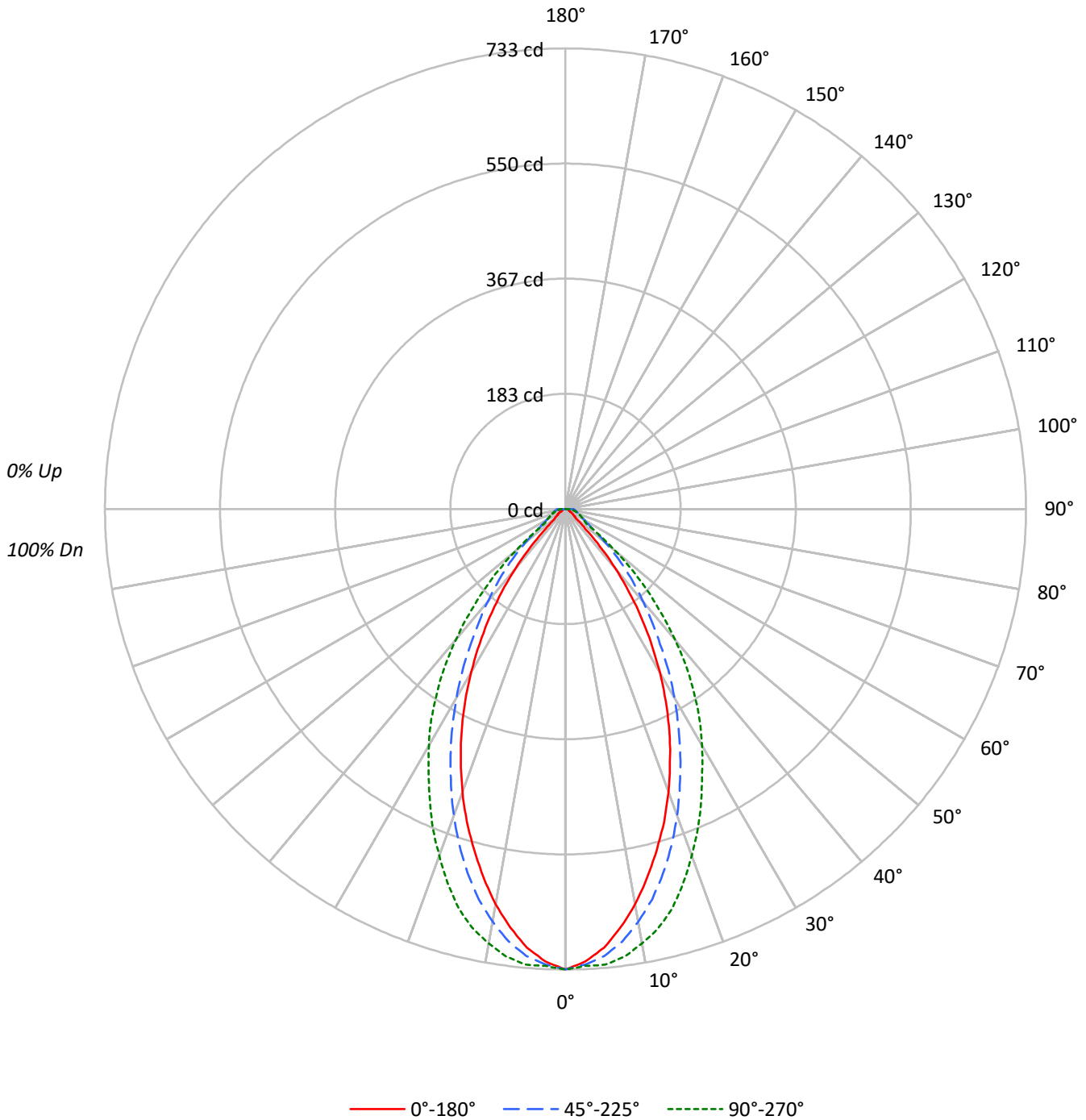
Lumens per Lamp: N/A
Luminaire Lumens: 797.5 lumens
Efficiency: N/A
Efficacy: 19.1 lumens/watt
Spacing Criteria (0/90/45): 0.78 / 0.96 / 0.91
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

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

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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				
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°	13520	13520	13520
5°	12985	13224	13485
10°	11971	12498	13157
15°	10727	11466	12562
20°	9416	10197	11533
25°	7971	8808	10406
30°	6394	7394	9266
35°	4726	5915	8028
40°	2965	4632	6523
45°	1161	3486	4833
50°	571	2357	2963
55°	454	1547	1319
60°	347	1255	1210
65°	258	1179	1179
70°	318	1203	1203
75°	335	1340	1255
80°	499	1743	1371
85°	995	2985	1990

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 87.5°
 Luminance: 5457 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.9	8.4
10°-20°	169.2	21.2
20°-30°	202.4	25.4
30°-40°	170.4	21.4
40°-50°	97.0	12.2
50°-60°	38.3	4.8
60°-70°	24.1	3.0
70°-80°	17.9	2.2
80°-90°	11.4	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°	438.5	55.0
0°-40°	608.8	76.3
0°-60°	744.1	93.3
0°-90°	797.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	797.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	733	733	733	733	733	
5°	701	716	714	722	728	65
15°	562	582	600	635	658	157
25°	392	409	433	477	511	178
35°	210	229	263	319	356	130
45°	44	78	134	168	185	42
55°	14	30	48	49	41	13
65°	6	27	27	26	27	7
75°	5	19	19	18	18	5
85°	5	13	14	13	9	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	732.7	732.7	732.7	732.7	732.7
2.5°	721.0	733.8	725.6	726.8	728.0
5°	701.0	716.3	713.9	722.1	728.0
7.5°	671.7	688.1	694.0	708.1	718.6
10°	638.9	657.6	667.0	689.3	702.2
12.5°	601.4	622.5	636.5	664.7	683.4
15°	561.5	581.5	600.2	635.4	657.6
17.5°	521.7	541.6	561.5	600.2	623.7
20°	479.5	498.2	519.3	560.4	587.3
22.5°	434.9	454.8	475.9	518.1	551.0
25°	391.5	409.1	432.6	477.1	511.1
27.5°	345.8	363.4	389.2	434.9	471.3
30°	300.1	317.7	347.0	393.9	434.9
32.5°	254.4	273.1	304.8	356.4	397.4
35°	209.8	228.6	262.6	318.9	356.4
37.5°	166.5	187.6	225.1	280.2	315.3
40°	123.1	147.7	192.3	241.5	270.8
42.5°	82.1	112.5	161.8	202.8	227.4
45°	44.5	78.5	133.6	167.6	185.2
47.5°	24.6	50.4	106.7	133.6	144.2
50°	19.9	35.2	82.1	102.0	103.2
52.5°	16.4	31.7	61.0	72.7	66.8
55°	14.1	30.5	48.1	49.2	41.0
57.5°	11.7	29.3	39.9	35.2	35.2
60°	9.4	29.3	34.0	31.7	32.8
62.5°	7.0	29.3	30.5	28.1	29.3
65°	5.9	27.0	27.0	25.8	27.0
67.5°	5.9	24.6	24.6	23.4	24.6
70°	5.9	23.4	22.3	22.3	22.3
72.5°	4.7	21.1	21.1	19.9	19.9
75°	4.7	18.8	18.8	17.6	17.6
77.5°	4.7	17.6	17.6	16.4	15.2
80°	4.7	15.2	16.4	15.2	12.9
82.5°	4.7	14.1	15.2	14.1	10.6
85°	4.7	12.9	14.1	12.9	9.4
87.5°	3.5	12.9	12.9	10.6	7.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)