

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: P1057841

Luminaire Tested: S122RDR-S1005D930-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1057841
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-58)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDR-S1005D930-X4F0-XX-UDD-WVL-S
Description: DEFINE 2 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

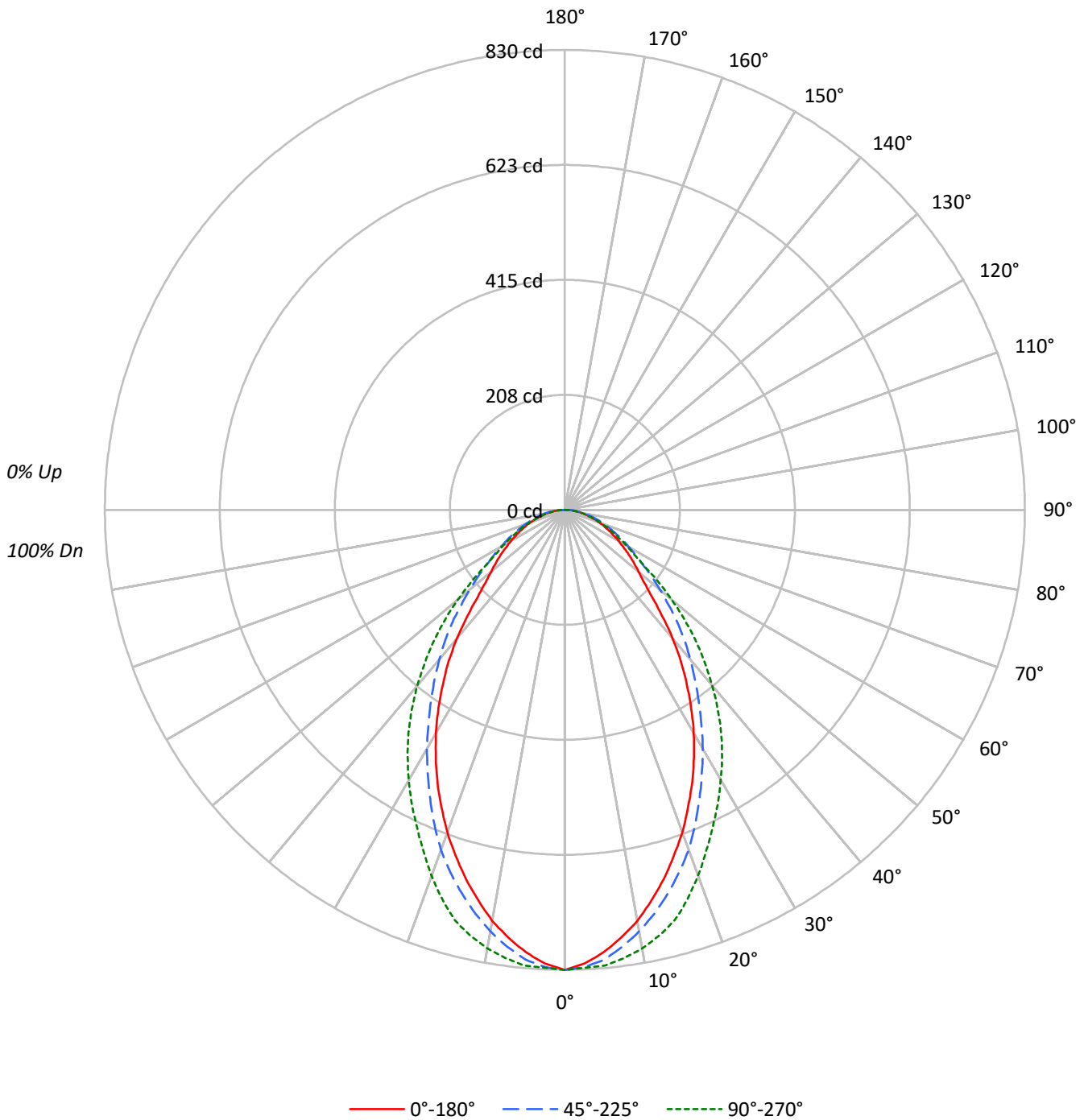
Lumens per Lamp: N/A
Luminaire Lumens: 1352.4 lumens
Efficiency: N/A
Efficacy: 32.4 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 1.05 / 1.05
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

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	110	106	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87				
2	102	95	89	84	100	93	88	83	90	85	81	87	83	79	84	80	78	76				
3	94	85	78	73	92	84	77	72	81	75	71	78	73	69	76	72	68	66				
4	88	77	69	63	85	76	69	63	73	67	62	71	66	61	69	64	61	59				
5	81	70	62	56	79	69	61	56	67	60	55	65	59	55	63	58	54	52				
6	76	64	56	50	74	63	56	50	61	55	50	60	54	49	58	53	49	47				
7	71	59	51	45	69	58	51	45	57	50	45	55	49	45	54	49	44	43				
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41	39				
9	63	50	43	38	61	50	43	38	49	42	38	48	42	37	47	41	37	36				
10	59	47	40	35	58	46	39	35	45	39	35	45	39	34	44	38	34	33				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15325	15325	15325
5°	14848	15093	15294
10°	14117	14478	15065
15°	13172	13701	14645
20°	12167	12829	13799
25°	11068	11707	12859
30°	9914	10607	11994
35°	8634	9477	11078
40°	7289	8479	9960
45°	5788	7487	8713
50°	4984	6436	7231
55°	4536	5508	5546
60°	4137	4894	4716
65°	3790	4423	4157
70°	3512	4095	3706
75°	3265	3864	3265
80°	3071	3719	2943
85°	3070	3832	2562

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 8713 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.7	5.7
10°-20°	202.7	15.0
20°-30°	266.7	19.7
30°-40°	268.2	19.8
40°-50°	217.4	16.1
50°-60°	149.7	11.1
60°-70°	98.0	7.2
70°-80°	54.6	4.0
80°-90°	18.5	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°	546.1	40.4
0°-40°	814.3	60.2
0°-60°	1181.3	87.4
0°-90°	1352.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1352.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	830	830	830	830	830	
5°	802	817	815	818	826	75
15°	690	706	717	744	767	193
25°	544	558	575	600	632	249
35°	383	401	421	458	492	239
45°	222	247	287	312	334	175
55°	141	157	171	175	172	126
65°	87	104	101	96	95	87
75°	46	57	54	48	46	49
85°	14	19	18	16	12	16
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	830.5	830.5	830.5	830.5	830.5
2.5°	819.7	834.1	825.7	825.7	826.9
5°	801.6	817.3	814.8	818.5	825.7
7.5°	778.7	795.6	795.6	806.4	816.1
10°	753.4	770.3	772.7	789.5	804.0
12.5°	722.0	738.9	746.1	767.8	787.1
15°	689.5	706.4	717.2	743.7	766.6
17.5°	654.5	671.4	685.9	713.6	736.5
20°	619.6	635.2	653.3	677.4	702.7
22.5°	581.0	597.9	614.8	637.7	666.6
25°	543.6	558.1	575.0	600.3	631.6
27.5°	503.9	519.5	535.2	565.3	597.9
30°	465.3	481.0	497.8	529.2	562.9
32.5°	424.3	441.2	458.1	493.0	528.0
35°	383.3	401.4	420.7	458.1	491.8
37.5°	343.5	362.8	385.7	424.3	453.2
40°	302.6	323.0	352.0	385.7	413.5
42.5°	259.2	284.5	319.4	348.4	373.7
45°	221.8	247.1	286.9	312.2	333.9
47.5°	194.1	214.6	253.1	274.8	292.9
50°	173.6	189.2	224.2	239.9	251.9
52.5°	156.7	172.4	196.5	207.3	210.9
55°	141.0	156.7	171.2	174.8	172.4
57.5°	125.4	142.2	150.7	147.1	147.1
60°	112.1	130.2	132.6	127.8	127.8
62.5°	98.8	116.9	116.9	110.9	110.9
65°	86.8	103.7	101.3	96.4	95.2
67.5°	75.9	91.6	88.0	83.2	82.0
70°	65.1	79.6	75.9	69.9	68.7
72.5°	55.4	68.7	63.9	59.1	56.7
75°	45.8	56.7	54.2	48.2	45.8
77.5°	37.4	45.8	43.4	38.6	36.2
80°	28.9	36.2	35.0	30.1	27.7
82.5°	21.7	27.7	26.5	22.9	19.3
85°	14.5	19.3	18.1	15.7	12.1
87.5°	7.2	13.3	12.1	10.8	6.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)