

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: P1060340

Luminaire Tested: S124RDR-S1195D927-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1060340
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-77)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDR-S1195D927-X4F0-XX-UDD-SVL-S
Description: DEFINE 4 SILVER REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

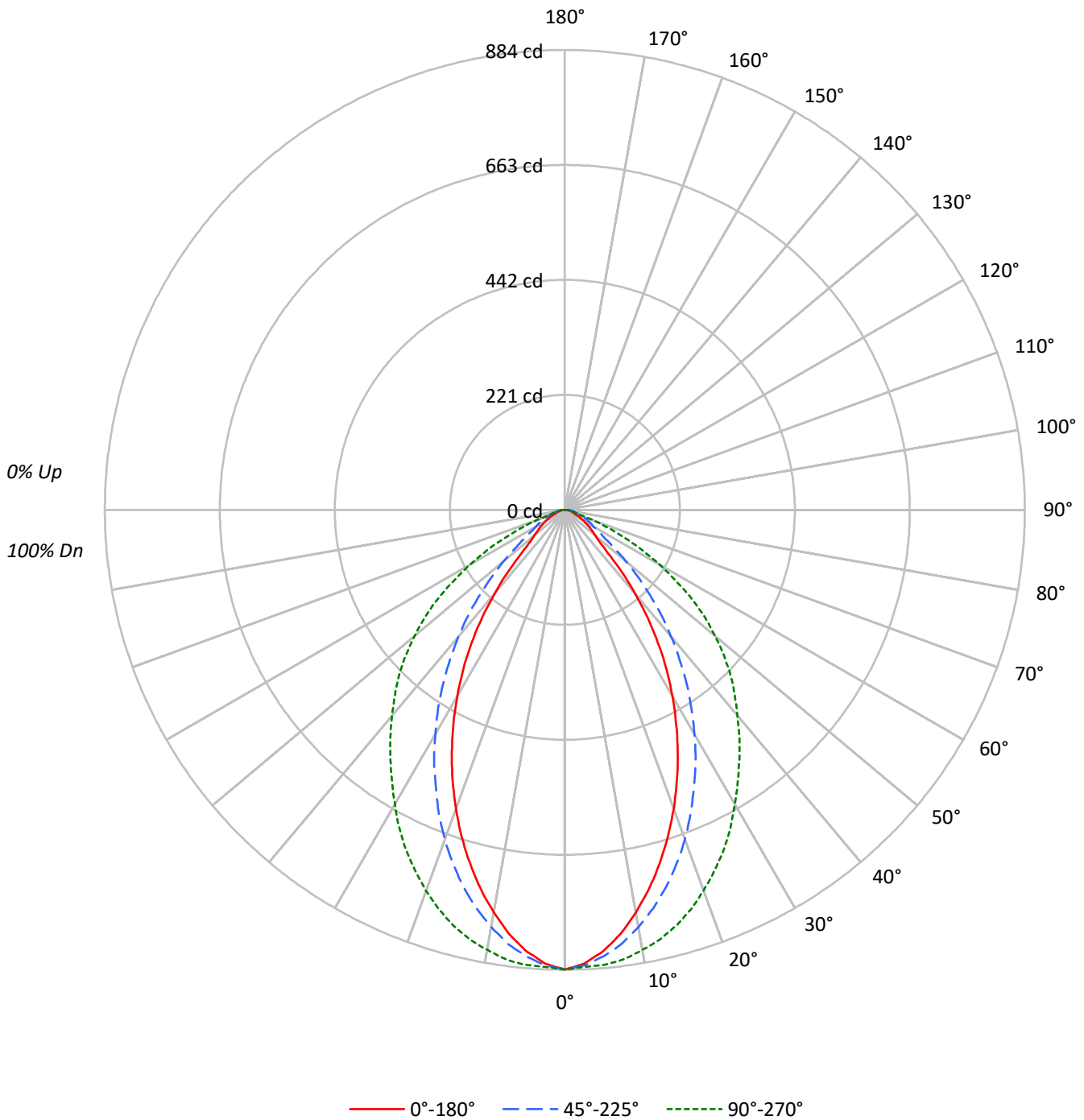
Lumens per Lamp: N/A
Luminaire Lumens: 1242.5 lumens
Efficiency: N/A
Efficacy: 29.7 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.12 / 1.01
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

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				100
1	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89				89
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79				79
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	70				70
4	90	80	73	68	88	79	72	67	77	71	67	75	70	66	73	68	65	63				63
5	84	73	66	61	82	72	65	60	70	64	60	69	63	59	67	62	59	57				57
6	79	68	60	55	77	67	60	54	65	59	54	63	58	54	62	57	53	51				51
7	74	62	55	50	72	62	54	49	60	54	49	59	53	49	58	52	49	47				47
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	54	48	45	43				43
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39				39
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	36				36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7609	7609	7609
5°	7356	7444	7589
10°	6871	7117	7510
15°	6274	6695	7376
20°	5605	6181	7139
25°	4882	5575	6858
30°	4114	4952	6495
35°	3285	4290	6145
40°	2363	3563	5800
45°	1424	2807	5490
50°	1023	2034	5045
55°	860	1368	4472
60°	698	1085	3601
65°	550	984	2588
70°	481	821	1387
75°	449	749	672
80°	446	779	615
85°	662	1107	781

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5490 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.1	6.5
10°-20°	212.5	17.1
20°-30°	275.8	22.2
30°-40°	265.1	21.3
40°-50°	196.7	15.8
50°-60°	120.5	9.7
60°-70°	58.5	4.7
70°-80°	22.3	1.8
80°-90°	10.0	0.8
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°	569.4	45.8
0°-40°	834.5	67.2
0°-60°	1151.7	92.7
0°-90°	1242.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1242.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	884	884	884	884	884	
5°	851	863	861	869	878	79
15°	704	724	751	796	827	196
25°	514	540	587	662	722	235
35°	312	341	408	505	585	194
45°	117	146	230	352	451	97
55°	57	60	91	206	298	51
65°	27	29	48	76	127	28
75°	14	21	22	20	20	14
85°	7	11	11	10	8	6
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	883.6	883.6	883.6	883.6	883.6
2.5°	872.4	882.5	875.8	878.0	879.1
5°	851.0	863.4	861.2	869.0	878.0
7.5°	821.8	836.4	840.9	856.7	871.3
10°	785.8	803.8	813.9	839.8	858.9
12.5°	746.5	765.6	784.7	819.6	845.4
15°	703.8	724.0	751.0	796.0	827.4
17.5°	658.8	681.3	713.9	767.8	804.9
20°	611.6	635.2	674.5	734.1	779.1
22.5°	563.2	588.0	631.8	698.1	751.0
25°	513.8	539.6	586.8	662.2	721.8
27.5°	463.2	490.2	544.1	623.9	689.2
30°	413.7	439.6	498.0	584.6	653.2
32.5°	363.1	390.1	453.1	544.1	618.3
35°	312.5	340.6	408.1	504.8	584.6
37.5°	260.8	291.2	362.0	466.6	550.9
40°	210.2	239.5	317.0	427.2	516.0
42.5°	160.8	192.2	274.3	387.9	483.4
45°	116.9	146.1	230.5	351.9	450.8
47.5°	87.7	105.7	190.0	318.2	414.8
50°	76.4	79.8	151.8	281.1	376.6
52.5°	66.3	68.6	118.0	240.6	338.4
55°	57.3	59.6	91.1	205.7	297.9
57.5°	48.3	50.6	73.1	172.0	251.8
60°	40.5	42.7	63.0	137.2	209.1
62.5°	33.7	34.9	56.2	104.6	167.5
65°	27.0	29.2	48.3	76.4	127.0
67.5°	22.5	24.7	39.3	52.8	88.8
70°	19.1	24.7	32.6	37.1	55.1
72.5°	15.7	22.5	27.0	25.9	25.9
75°	13.5	21.4	22.5	20.2	20.2
77.5°	11.2	19.1	18.0	16.9	15.7
80°	9.0	15.7	15.7	13.5	12.4
82.5°	7.9	12.4	12.4	12.4	10.1
85°	6.7	11.2	11.2	10.1	7.9
87.5°	4.5	9.0	10.1	9.0	5.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)