

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: P1060532

Luminaire Tested: S124RDR-S575D940-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1060532  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-76)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S124RDR-S575D940-X4F0-XX-UDD-WVL-S  
Description: DEFINE 4 SILVER REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

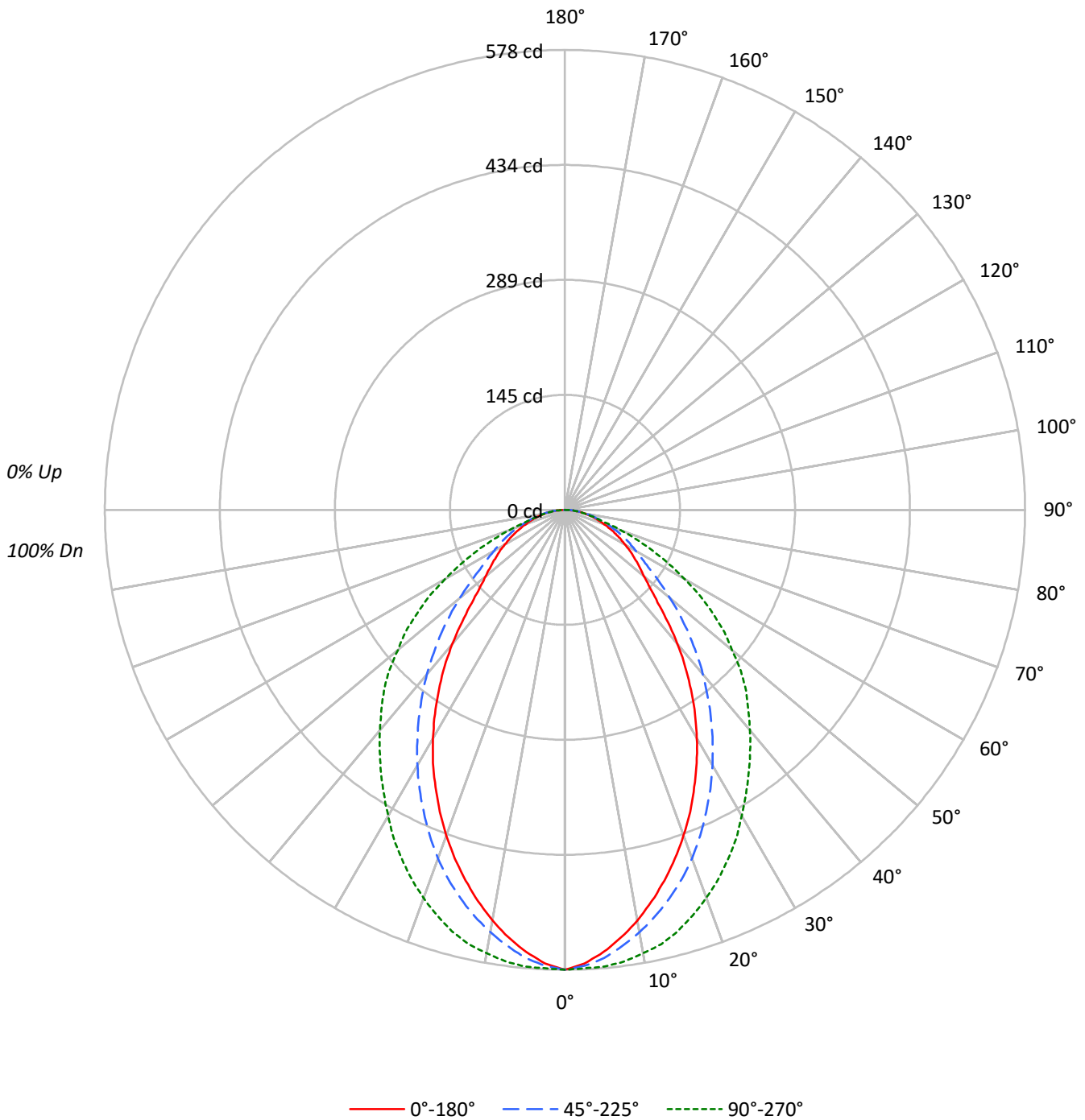
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1052.1 lumens  
Efficiency: N/A  
Efficacy: 53.7 lumens/watt  
Spacing Criteria (0/90/45): 0.92 / 1.15 / 1.1  
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 19.6  
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																		
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	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	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87																												
2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	75																												
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	65																												
4	87	76	68	62	84	74	67	61	72	66	61	70	64	60	68	63	59	57																												
5	80	69	60	54	78	68	60	54	65	59	54	64	58	53	62	57	52	50																												
6	75	62	54	48	73	62	54	48	60	53	48	58	52	47	57	51	47	45																												
7	70	57	49	43	68	56	49	43	55	48	43	54	47	43	52	47	42	41																												
8	65	53	45	39	64	52	44	39	51	44	39	50	43	39	48	43	39	37																												
9	61	49	41	36	60	48	41	36	47	40	36	46	40	35	45	39	35	34																												
10	58	45	38	33	56	45	38	33	44	37	33	43	37	33	42	36	32	31																												

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	4976	4976	4976
5°	4823	4886	4980
10°	4582	4714	4947
15°	4299	4509	4887
20°	3991	4274	4757
25°	3654	3983	4604
30°	3294	3686	4415
35°	2903	3362	4234
40°	2472	3031	4065
45°	2007	2678	3916
50°	1736	2304	3668
55°	1609	1955	3400
60°	1502	1764	2983
65°	1408	1655	2482
70°	1312	1526	1876
75°	1251	1411	1351
80°	1170	1289	1141
85°	1077	1196	899

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 3916 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	53.4	5.1
10°-20°	143.4	13.6
20°-30°	195.8	18.6
30°-40°	205.2	19.5
40°-50°	177.6	16.9
50°-60°	133.4	12.7
60°-70°	86.0	8.2
70°-80°	44.1	4.2
80°-90°	13.2	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°	392.6	37.3
0°-40°	597.7	56.8
0°-60°	908.7	86.4
0°-90°	1052.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1052.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	578	578	578	578	578	
5°	558	566	565	569	576	52
15°	482	494	506	529	548	135
25°	385	399	419	452	485	176
35°	276	292	320	362	403	172
45°	165	182	220	274	322	130
55°	107	111	130	186	226	96
65°	69	70	81	98	122	69
75°	38	42	42	42	41	40
85°	11	13	12	12	9	12
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	577.9	577.9	577.9	577.9	577.9
2.5°	570.6	577.9	573.6	574.9	576.7
5°	557.9	566.4	565.2	569.4	576.1
7.5°	542.1	551.2	553.0	562.7	572.4
10°	524.0	534.3	539.1	553.6	565.8
12.5°	504.0	514.9	523.4	541.5	559.1
15°	482.2	494.3	505.8	528.8	548.2
17.5°	459.8	471.9	487.0	512.5	534.3
20°	435.5	448.9	466.4	493.1	519.1
22.5°	410.7	424.6	443.4	472.5	502.8
25°	384.6	399.2	419.2	451.9	484.6
27.5°	358.6	373.1	395.6	430.1	465.8
30°	331.3	346.5	370.7	408.3	444.0
32.5°	304.1	320.4	345.3	385.3	423.4
35°	276.2	292.0	319.8	362.2	402.8
37.5°	248.4	264.7	294.4	339.8	382.2
40°	219.9	236.8	269.6	317.4	361.6
42.5°	191.4	209.6	244.1	294.4	341.0
45°	164.8	181.7	219.9	273.8	321.6
47.5°	144.8	156.3	195.7	253.8	299.8
50°	129.6	135.7	172.0	232.0	273.8
52.5°	118.1	122.4	150.2	208.4	252.6
55°	107.2	110.9	130.2	186.0	226.5
57.5°	97.5	99.3	115.1	164.2	201.7
60°	87.2	89.0	102.4	140.5	173.2
62.5°	78.1	79.4	92.1	118.1	147.2
65°	69.1	70.3	81.2	98.1	121.8
67.5°	60.6	62.4	70.9	80.0	96.9
70°	52.1	55.7	60.6	64.8	74.5
72.5°	44.8	48.5	50.9	52.1	52.7
75°	37.6	41.8	42.4	41.8	40.6
77.5°	30.3	33.9	33.9	32.7	31.5
80°	23.6	26.7	26.0	24.8	23.0
82.5°	17.6	19.4	18.8	17.6	15.7
85°	10.9	12.7	12.1	11.5	9.1
87.5°	5.5	7.3	6.7	6.1	3.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)