

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: P1060379

Luminaire Tested: S124RDR-S1195D950-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1060379
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-S1195D950-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: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

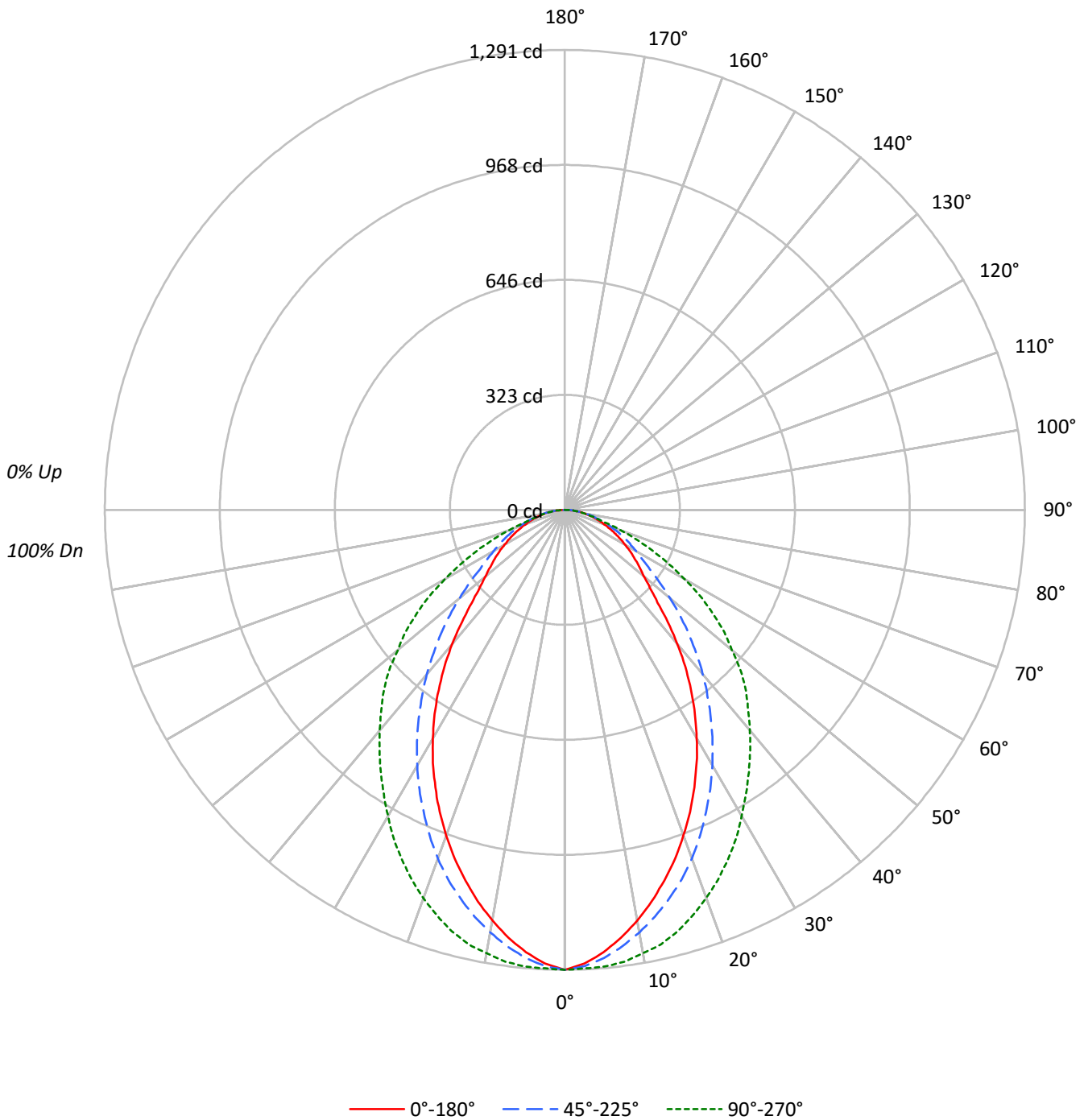
Lumens per Lamp: N/A
Luminaire Lumens: 2350.7 lumens
Efficiency: N/A
Efficacy: 56.2 lumens/watt
Spacing Criteria (0/90/45): 0.93 / 1.15 / 1.1
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

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				
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°	11119	11119	11119
5°	10775	10915	11126
10°	10237	10533	11053
15°	9604	10075	10920
20°	8917	9550	10629
25°	8165	8899	10287
30°	7361	8236	9865
35°	6488	7512	9461
40°	5523	6770	9083
45°	4483	5983	8752
50°	3880	5150	8196
55°	3597	4369	7600
60°	3357	3939	6667
65°	3144	3696	5542
70°	2931	3406	4192
75°	2791	3151	3018
80°	2618	2886	2549
85°	2411	2678	2006

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 8752 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.2	5.1
10°-20°	320.4	13.6
20°-30°	437.5	18.6
30°-40°	458.4	19.5
40°-50°	396.8	16.9
50°-60°	298.1	12.7
60°-70°	192.2	8.2
70°-80°	98.6	4.2
80°-90°	29.4	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°	877.2	37.3
0°-40°	1335.5	56.8
0°-60°	2030.5	86.4
0°-90°	2350.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2350.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1291	1291	1291	1291	1291	
5°	1246	1266	1263	1272	1287	117
15°	1077	1104	1130	1182	1225	302
25°	859	892	937	1010	1083	394
35°	617	652	715	809	900	384
45°	368	406	491	612	719	290
55°	240	248	291	416	506	215
65°	154	157	181	219	272	153
75°	84	93	95	93	91	89
85°	24	28	27	26	20	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1291.2	1291.2	1291.2	1291.2	1291.2
2.5°	1274.9	1291.2	1281.7	1284.4	1288.5
5°	1246.5	1265.5	1262.7	1272.2	1287.1
7.5°	1211.3	1231.6	1235.7	1257.3	1279.0
10°	1170.7	1193.7	1204.6	1237.0	1264.1
12.5°	1126.1	1150.4	1169.4	1210.0	1249.2
15°	1077.3	1104.4	1130.1	1181.5	1224.9
17.5°	1027.3	1054.3	1088.2	1145.0	1193.7
20°	973.1	1002.9	1042.1	1101.7	1159.9
22.5°	917.6	948.8	990.7	1055.7	1123.3
25°	859.4	891.9	936.6	1009.7	1082.7
27.5°	801.2	833.7	883.8	960.9	1040.8
30°	740.3	774.2	828.3	912.2	992.1
32.5°	679.4	716.0	771.5	860.8	946.0
35°	617.2	652.4	714.6	809.4	900.0
37.5°	554.9	591.4	657.8	759.3	854.0
40°	491.3	529.2	602.3	709.2	808.0
42.5°	427.7	468.3	545.4	657.8	762.0
45°	368.1	406.0	491.3	611.8	718.7
47.5°	323.5	349.2	437.2	567.1	669.9
50°	289.6	303.2	384.4	518.4	611.8
52.5°	263.9	273.4	335.7	465.6	564.4
55°	239.6	247.7	291.0	415.5	506.2
57.5°	217.9	222.0	257.2	366.8	450.7
60°	194.9	199.0	228.7	314.0	387.1
62.5°	174.6	177.3	205.7	263.9	328.9
65°	154.3	157.0	181.4	219.3	272.0
67.5°	135.3	139.4	158.4	178.7	216.5
70°	116.4	124.5	135.3	144.8	166.5
72.5°	100.2	108.3	113.7	116.4	117.7
75°	83.9	93.4	94.7	93.4	90.7
77.5°	67.7	75.8	75.8	73.1	70.4
80°	52.8	59.6	58.2	55.5	51.4
82.5°	39.2	43.3	42.0	39.2	35.2
85°	24.4	28.4	27.1	25.7	20.3
87.5°	12.2	16.2	14.9	13.5	8.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)