

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: P1060372

Luminaire Tested: S124RDR-S1195D950-X4F0-XX-UDD-BVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1060372
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-39)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDR-S1195D950-X4F0-XX-UDD-BVL-B
Description: DEFINE 4 BLACK REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

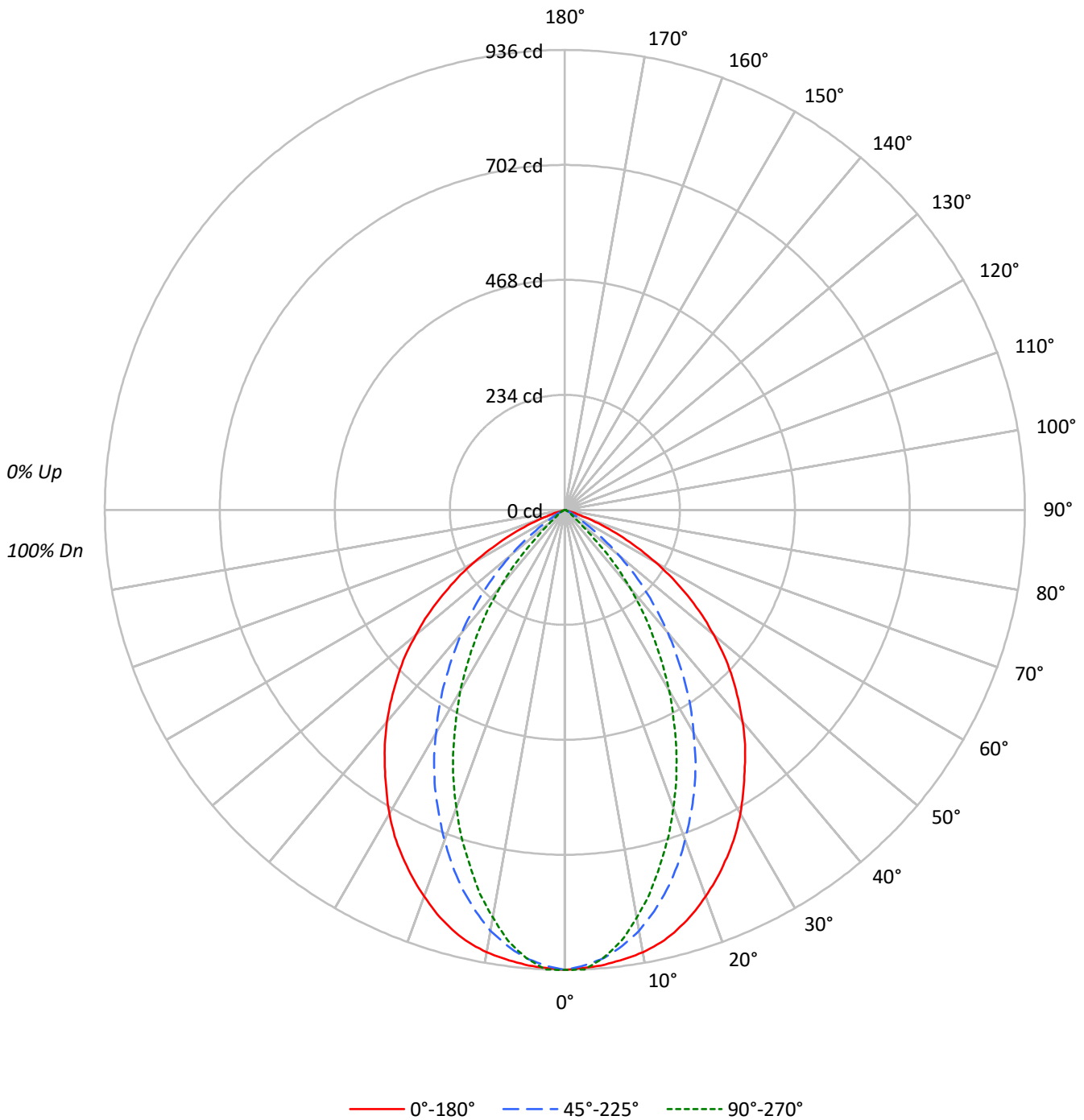
Lumens per Lamp: N/A
Luminaire Lumens: 1222.3 lumens
Efficiency: N/A
Efficacy: 29.2 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 0.83 / 0.98
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	96	94	93	91
2	105	99	95	90	103	98	93	89	94	91	87	91	88	86	88	86	84	82
3	98	91	85	80	96	89	84	79	86	82	78	84	80	77	82	78	75	74
4	92	83	76	71	90	82	76	71	79	74	70	77	73	69	75	71	68	66
5	86	76	69	64	84	75	69	64	73	67	63	71	66	62	70	65	62	60
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	56	55
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	50
8	71	60	53	48	70	60	53	48	58	52	48	57	52	48	56	51	47	46
9	67	56	49	44	66	56	49	44	54	48	44	54	48	44	53	48	44	42
10	64	52	46	41	63	52	45	41	51	45	41	50	45	41	49	44	41	39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8061	8061	8061
5°	8033	7916	7904
10°	7995	7606	7369
15°	7887	7139	6668
20°	7673	6558	5912
25°	7416	5937	5102
30°	7101	5205	4223
35°	6712	4465	3285
40°	6325	3665	2297
45°	5865	2817	1136
50°	5292	1902	380
55°	4570	974	264
60°	3658	350	186
65°	2508	194	84
70°	1123	103	68
75°	0	47	47
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5865 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.5	7.1
10°-20°	226.6	18.5
20°-30°	293.3	24.0
30°-40°	278.7	22.8
40°-50°	197.4	16.1
50°-60°	101.3	8.3
60°-70°	35.4	2.9
70°-80°	3.1	0.3
80°-90°	0.0	0.0
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°	606.4	49.6
0°-40°	885.1	72.4
0°-60°	1183.8	96.8
0°-90°	1222.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1222.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	936	936	936	936	936	
5°	929	931	916	916	914	88
15°	885	858	801	763	748	249
25°	780	720	625	559	537	359
35°	638	545	425	342	312	399
45°	482	371	231	133	93	371
55°	304	200	65	19	18	272
65°	123	60	10	5	4	122
75°	0	1	1	1	1	10
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	936.1	936.1	936.1	936.1	936.1
2.5°	933.3	936.1	927.9	934.7	936.1
5°	929.3	930.6	915.8	915.8	914.4
7.5°	922.5	919.8	895.5	886.0	884.7
10°	914.4	904.9	869.8	849.5	842.7
12.5°	902.2	884.7	837.3	807.5	799.4
15°	884.7	857.6	800.8	762.9	748.0
17.5°	863.0	827.8	760.2	714.2	699.3
20°	837.3	792.7	715.6	664.2	645.2
22.5°	810.3	758.9	669.6	611.4	592.5
25°	780.5	719.6	624.9	558.7	537.0
27.5°	749.4	677.7	576.2	507.3	478.8
30°	714.2	635.8	523.5	451.8	424.7
32.5°	676.3	589.8	476.1	399.0	366.6
35°	638.5	545.1	424.7	342.2	312.5
37.5°	601.9	503.2	373.3	286.8	258.4
40°	562.7	457.2	326.0	236.7	204.3
42.5°	522.1	412.6	277.3	185.3	150.1
45°	481.6	370.6	231.3	132.6	93.3
47.5°	441.0	326.0	186.7	83.9	50.0
50°	395.0	282.7	142.0	44.6	28.4
52.5°	351.7	242.1	101.5	25.7	21.6
55°	304.4	200.2	64.9	18.9	17.6
57.5°	259.7	159.6	36.5	14.9	13.5
60°	212.4	123.1	20.3	12.2	10.8
62.5°	165.0	89.3	13.5	8.1	6.8
65°	123.1	59.5	9.5	5.4	4.1
67.5°	81.2	33.8	6.8	2.7	2.7
70°	44.6	16.2	4.1	2.7	2.7
72.5°	16.2	5.4	2.7	1.4	1.4
75°	0.0	1.4	1.4	1.4	1.4
77.5°	0.0	0.0	0.0	0.0	1.4
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)