

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: P1060498

Luminaire Tested: S124RDR-S575D927-X4F0-XX-UDD-BVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1060498
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-S575D927-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: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

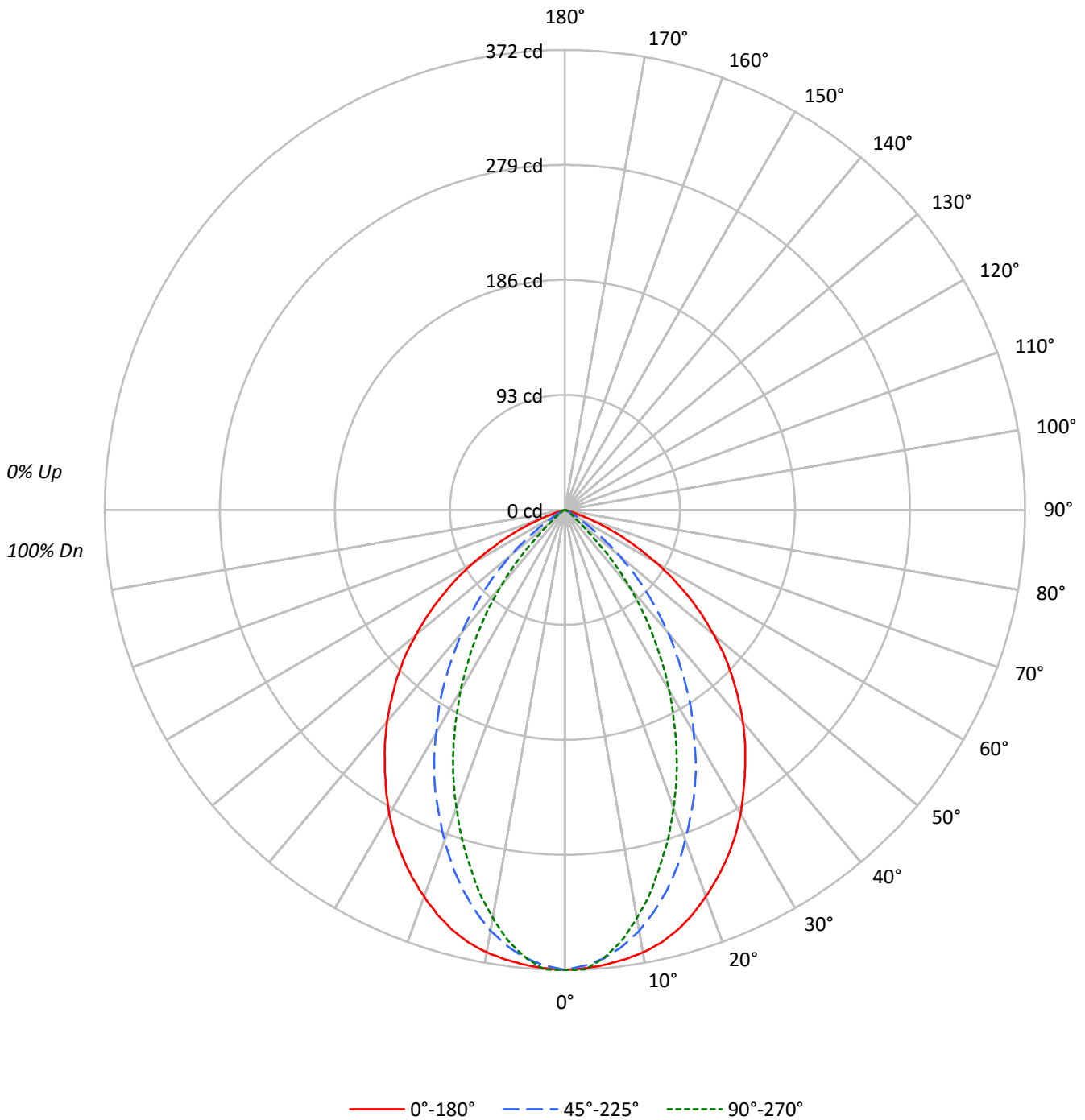
Lumens per Lamp: N/A
Luminaire Lumens: 486.0 lumens
Efficiency: N/A
Efficacy: 24.8 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 0.83 / 0.98
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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				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°	3205	3205	3205
5°	3194	3147	3143
10°	3179	3024	2930
15°	3135	2839	2651
20°	3051	2607	2351
25°	2948	2361	2029
30°	2824	2069	1679
35°	2669	1776	1306
40°	2515	1457	913
45°	2332	1120	452
50°	2103	757	151
55°	1817	387	105
60°	1454	140	74
65°	996	77	33
70°	446	40	28
75°	0	17	17
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2332 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.4	7.1
10°-20°	90.1	18.5
20°-30°	116.6	24.0
30°-40°	110.8	22.8
40°-50°	78.5	16.1
50°-60°	40.3	8.3
60°-70°	14.1	2.9
70°-80°	1.2	0.2
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°	241.1	49.6
0°-40°	351.9	72.4
0°-60°	470.7	96.8
0°-90°	486.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	486.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	372	372	372	372	372	
5°	370	370	364	364	364	35
15°	352	341	318	303	297	99
25°	310	286	248	222	214	143
35°	254	217	169	136	124	159
45°	192	147	92	53	37	147
55°	121	80	26	8	7	108
65°	49	24	4	2	2	49
75°	0	0	0	0	0	4
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°	372.2	372.2	372.2	372.2	372.2
2.5°	371.1	372.2	369.0	371.6	372.2
5°	369.5	370.0	364.1	364.1	363.6
7.5°	366.8	365.7	356.0	352.3	351.7
10°	363.6	359.8	345.8	337.8	335.1
12.5°	358.7	351.7	332.9	321.1	317.9
15°	351.7	341.0	318.4	303.3	297.4
17.5°	343.1	329.2	302.3	284.0	278.1
20°	332.9	315.2	284.5	264.1	256.5
22.5°	322.2	301.7	266.2	243.1	235.6
25°	310.3	286.1	248.5	222.1	213.5
27.5°	298.0	269.5	229.1	201.7	190.4
30°	284.0	252.8	208.1	179.6	168.9
32.5°	268.9	234.5	189.3	158.7	145.8
35°	253.9	216.7	168.9	136.1	124.2
37.5°	239.3	200.1	148.4	114.0	102.7
40°	223.7	181.8	129.6	94.1	81.2
42.5°	207.6	164.0	110.3	73.7	59.7
45°	191.5	147.4	92.0	52.7	37.1
47.5°	175.3	129.6	74.2	33.3	19.9
50°	157.0	112.4	56.5	17.7	11.3
52.5°	139.8	96.3	40.3	10.2	8.6
55°	121.0	79.6	25.8	7.5	7.0
57.5°	103.3	63.5	14.5	5.9	5.4
60°	84.4	48.9	8.1	4.8	4.3
62.5°	65.6	35.5	5.4	3.2	2.7
65°	48.9	23.7	3.8	2.2	1.6
67.5°	32.3	13.4	2.7	1.1	1.1
70°	17.7	6.5	1.6	1.1	1.1
72.5°	6.5	2.2	1.1	0.5	0.5
75°	0.0	0.5	0.5	0.5	0.5
77.5°	0.0	0.0	0.0	0.0	0.5
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)