

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: P1060585

Luminaire Tested: S124RDR-S795D927-X4F0-XX-UDD-WVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1060585
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-37)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDR-S795D927-X4F0-XX-UDD-WVL-B
Description: DEFINE 4 BLACK REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

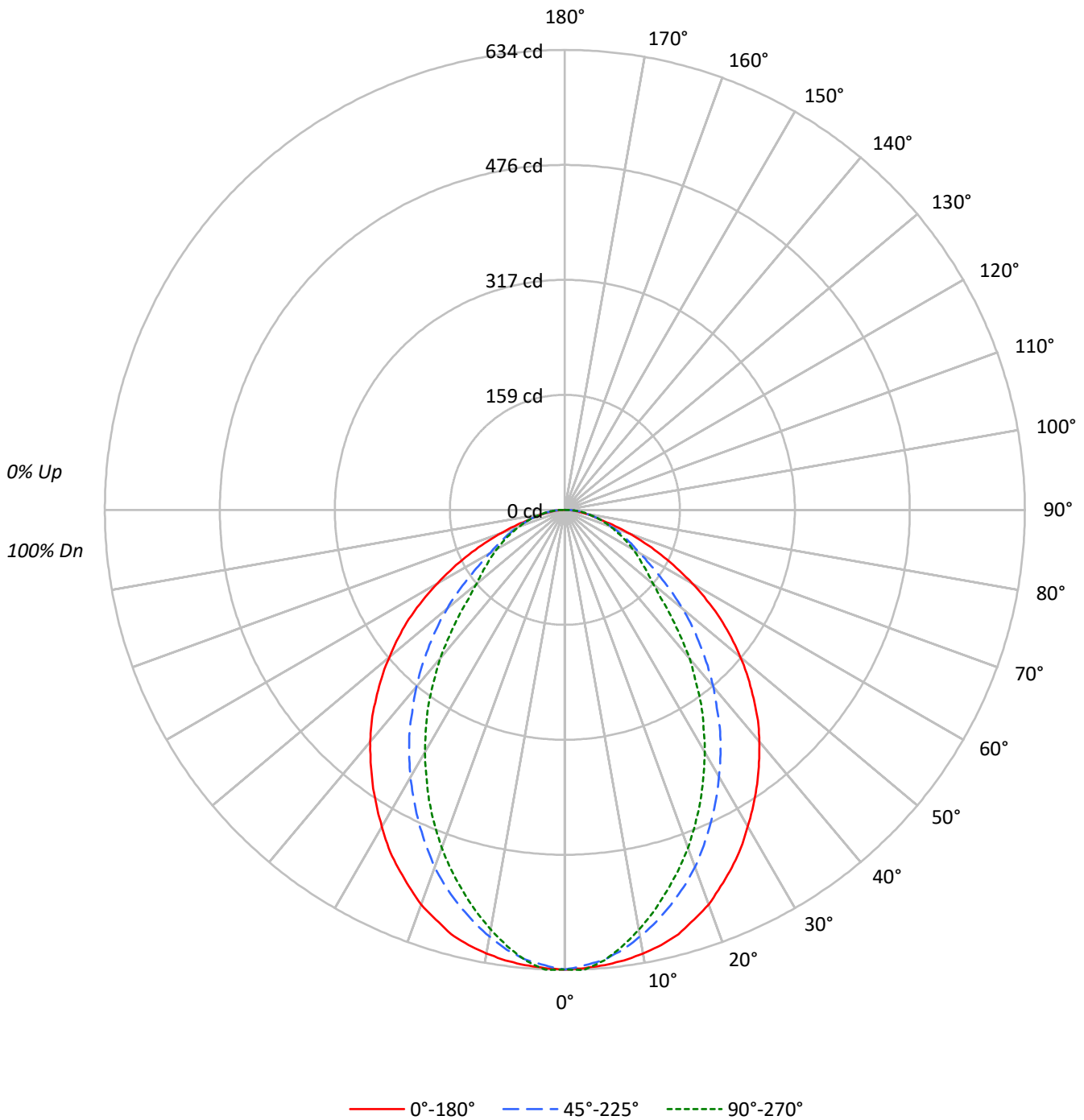
Lumens per Lamp: N/A
Luminaire Lumens: 1222.1 lumens
Efficiency: N/A
Efficacy: 47.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.96 / 1.12
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 25.8
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	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86				86
2	101	94	88	83	99	92	86	82	89	84	80	85	82	78	82	79	76	74				74
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64				64
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58	56				56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50				50
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44				44
7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40				40
8	65	52	44	39	63	51	44	39	50	43	38	49	43	38	48	42	38	36				36
9	61	48	40	35	59	48	40	35	46	40	35	45	39	35	44	39	35	33				33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30				30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5458	5458	5458
5°	5447	5382	5389
10°	5431	5223	5138
15°	5398	5026	4847
20°	5309	4805	4545
25°	5173	4522	4203
30°	5013	4229	3836
35°	4855	3922	3445
40°	4689	3575	3006
45°	4480	3210	2512
50°	4231	2833	2125
55°	3936	2404	1968
60°	3489	2039	1860
65°	2975	1883	1760
70°	2326	1745	1669
75°	1587	1610	1610
80°	1369	1512	1552
85°	1176	1472	1620

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4480 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.0	4.8
10°-20°	160.1	13.1
20°-30°	222.3	18.2
30°-40°	238.3	19.5
40°-50°	211.1	17.3
50°-60°	159.1	13.0
60°-70°	103.0	8.4
70°-80°	52.9	4.3
80°-90°	16.2	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°	441.4	36.1
0°-40°	679.8	55.6
0°-60°	1050.0	85.9
0°-90°	1222.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1222.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	634	634	634	634	634	
5°	630	631	623	623	623	60
15°	606	592	564	550	544	170
25°	544	515	476	451	442	251
35°	462	420	373	340	328	289
45°	368	320	264	223	206	284
55°	262	218	160	135	131	233
65°	146	118	92	87	86	145
75°	48	50	48	48	48	56
85°	12	13	15	16	16	14
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	633.8	633.8	633.8	633.8	633.8
2.5°	632.3	634.5	628.6	633.1	634.5
5°	630.1	630.8	622.6	623.4	623.4
7.5°	626.4	624.9	611.5	607.7	607.0
10°	621.1	616.7	597.3	589.9	587.6
12.5°	614.4	606.2	581.7	571.2	566.8
15°	605.5	592.1	563.8	549.6	543.7
17.5°	592.1	575.0	545.2	527.3	520.6
20°	579.4	556.3	524.3	502.0	496.0
22.5°	561.6	537.0	500.5	476.7	469.2
25°	544.4	515.4	475.9	450.6	442.4
27.5°	525.8	493.0	450.6	423.8	413.3
30°	504.2	469.2	425.3	397.0	385.8
32.5°	483.4	446.1	399.2	367.9	356.0
35°	461.8	420.1	373.1	339.6	327.7
37.5°	439.4	395.5	344.1	311.3	295.7
40°	417.1	370.9	318.0	280.8	267.4
42.5°	394.0	345.6	291.2	252.5	235.3
45°	367.9	320.3	263.6	222.7	206.3
47.5°	342.6	295.7	238.3	193.6	178.7
50°	315.8	269.6	211.5	168.3	158.6
52.5°	289.0	242.8	185.4	149.0	144.5
55°	262.2	218.2	160.1	134.8	131.1
57.5°	232.4	192.9	137.8	122.1	119.2
60°	202.6	165.3	118.4	110.2	108.0
62.5°	173.5	141.5	105.0	98.3	96.8
65°	146.0	117.7	92.4	87.1	86.4
67.5°	119.2	96.8	80.4	77.5	76.0
70°	92.4	77.5	69.3	67.8	66.3
72.5°	68.5	62.6	58.8	58.1	57.3
75°	47.7	49.9	48.4	48.4	48.4
77.5°	38.0	38.7	39.5	40.2	39.5
80°	27.6	29.8	30.5	32.0	31.3
82.5°	19.4	20.9	23.1	23.8	24.6
85°	11.9	12.7	14.9	16.4	16.4
87.5°	5.2	6.0	7.4	8.9	9.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)