

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: P1060621

Luminaire Tested: S124RDR-S795D950-X4F0-XX-UDD-WVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1060621
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-S795D950-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: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

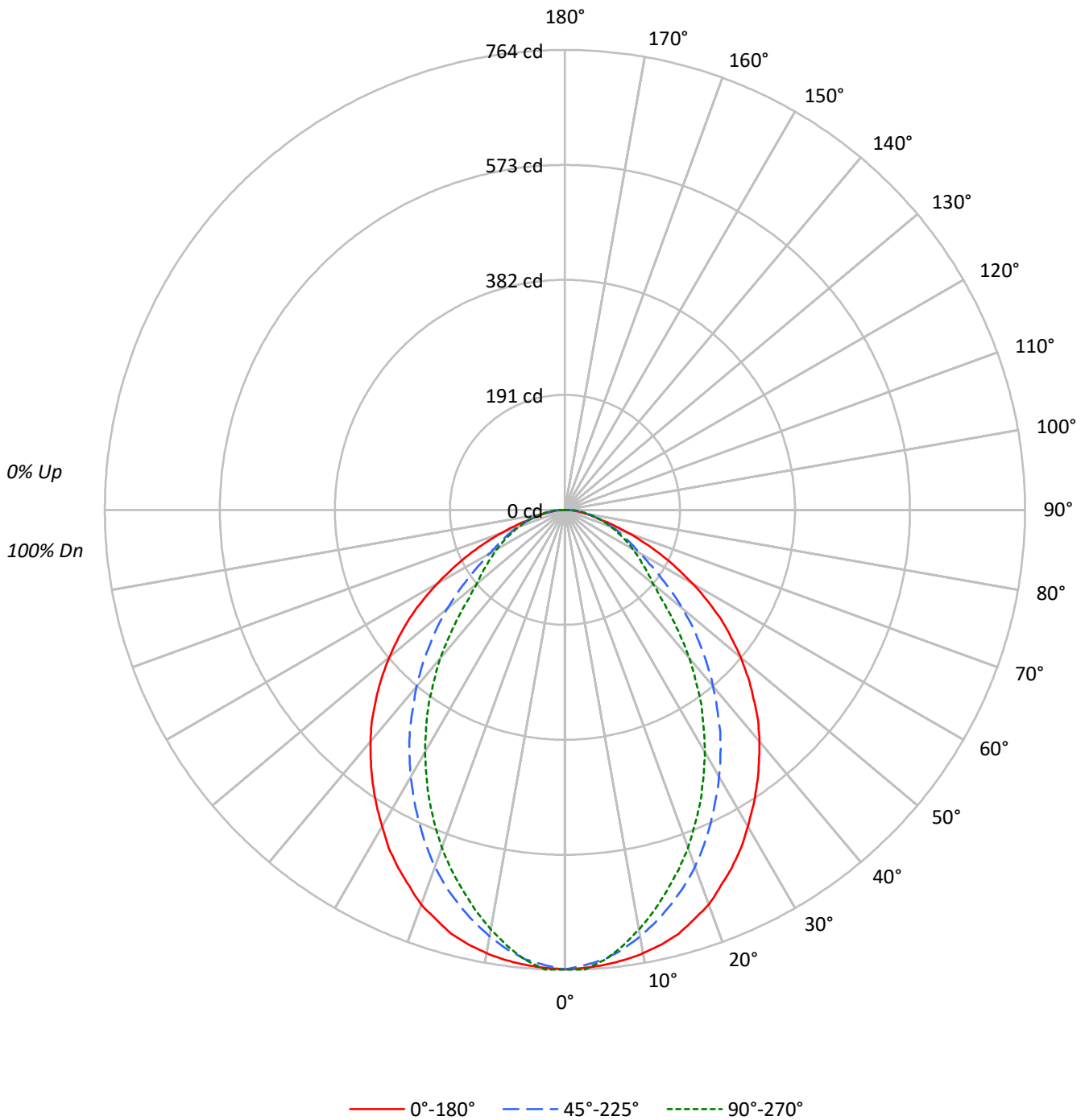
Lumens per Lamp: N/A
Luminaire Lumens: 1471.7 lumens
Efficiency: N/A
Efficacy: 57.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.96 / 1.12
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

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°	6573	6573	6573
5°	6559	6481	6489
10°	6540	6290	6188
15°	6501	6053	5837
20°	6394	5786	5474
25°	6229	5445	5062
30°	6038	5092	4620
35°	5846	4724	4148
40°	5646	4305	3620
45°	5396	3867	3025
50°	5095	3412	2559
55°	4740	2895	2371
60°	4202	2456	2241
65°	3582	2266	2119
70°	2800	2100	2009
75°	1910	1940	1940
80°	1646	1825	1870
85°	1423	1769	1946

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5396 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.0	4.8
10°-20°	192.8	13.1
20°-30°	267.7	18.2
30°-40°	287.0	19.5
40°-50°	254.3	17.3
50°-60°	191.6	13.0
60°-70°	124.1	8.4
70°-80°	63.7	4.3
80°-90°	19.5	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°	531.6	36.1
0°-40°	818.6	55.6
0°-60°	1264.5	85.9
0°-90°	1471.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1471.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	763	763	763	763	763	
5°	759	760	750	751	751	72
15°	729	713	679	662	655	205
25°	656	621	573	543	533	302
35°	556	506	449	409	395	348
45°	443	386	318	268	248	342
55°	316	263	193	162	158	280
65°	176	142	111	105	104	174
75°	57	60	58	58	58	68
85°	14	15	18	20	20	16
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	763.3	763.3	763.3	763.3	763.3
2.5°	761.5	764.2	757.0	762.4	764.2
5°	758.8	759.7	749.8	750.7	750.7
7.5°	754.3	752.5	736.4	731.9	731.0
10°	748.0	742.6	719.3	710.4	707.7
12.5°	739.9	730.1	700.5	687.9	682.5
15°	729.2	713.0	679.0	661.9	654.7
17.5°	713.0	692.4	656.5	635.0	626.9
20°	697.8	670.0	631.4	604.5	597.3
22.5°	676.3	646.7	602.7	574.0	565.1
25°	655.6	620.7	573.1	542.6	532.8
27.5°	633.2	593.8	542.6	510.3	497.8
30°	607.2	565.1	512.1	478.1	464.6
32.5°	582.1	537.2	480.7	443.1	428.7
35°	556.1	505.9	449.4	409.0	394.6
37.5°	529.2	476.3	414.4	374.9	356.1
40°	502.3	446.7	383.0	338.1	322.0
42.5°	474.5	416.2	350.7	304.1	283.4
45°	443.1	385.7	317.5	268.2	248.4
47.5°	412.6	356.1	287.0	233.2	215.3
50°	380.3	324.7	254.7	202.7	191.0
52.5°	348.0	292.4	223.3	179.4	174.0
55°	315.7	262.8	192.8	162.3	157.9
57.5°	279.8	232.3	165.9	147.1	143.5
60°	244.0	199.1	142.6	132.7	130.1
62.5°	209.0	170.4	126.5	118.4	116.6
65°	175.8	141.7	111.2	104.9	104.0
67.5°	143.5	116.6	96.9	93.3	91.5
70°	111.2	93.3	83.4	81.6	79.8
72.5°	82.5	75.3	70.9	70.0	69.1
75°	57.4	60.1	58.3	58.3	58.3
77.5°	45.7	46.6	47.5	48.4	47.5
80°	33.2	35.9	36.8	38.6	37.7
82.5°	23.3	25.1	27.8	28.7	29.6
85°	14.4	15.2	17.9	19.7	19.7
87.5°	6.3	7.2	9.0	10.8	11.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)