

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: P1060587

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1060587
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-73)
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-W
Description: DEFINE 4 WHITE REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

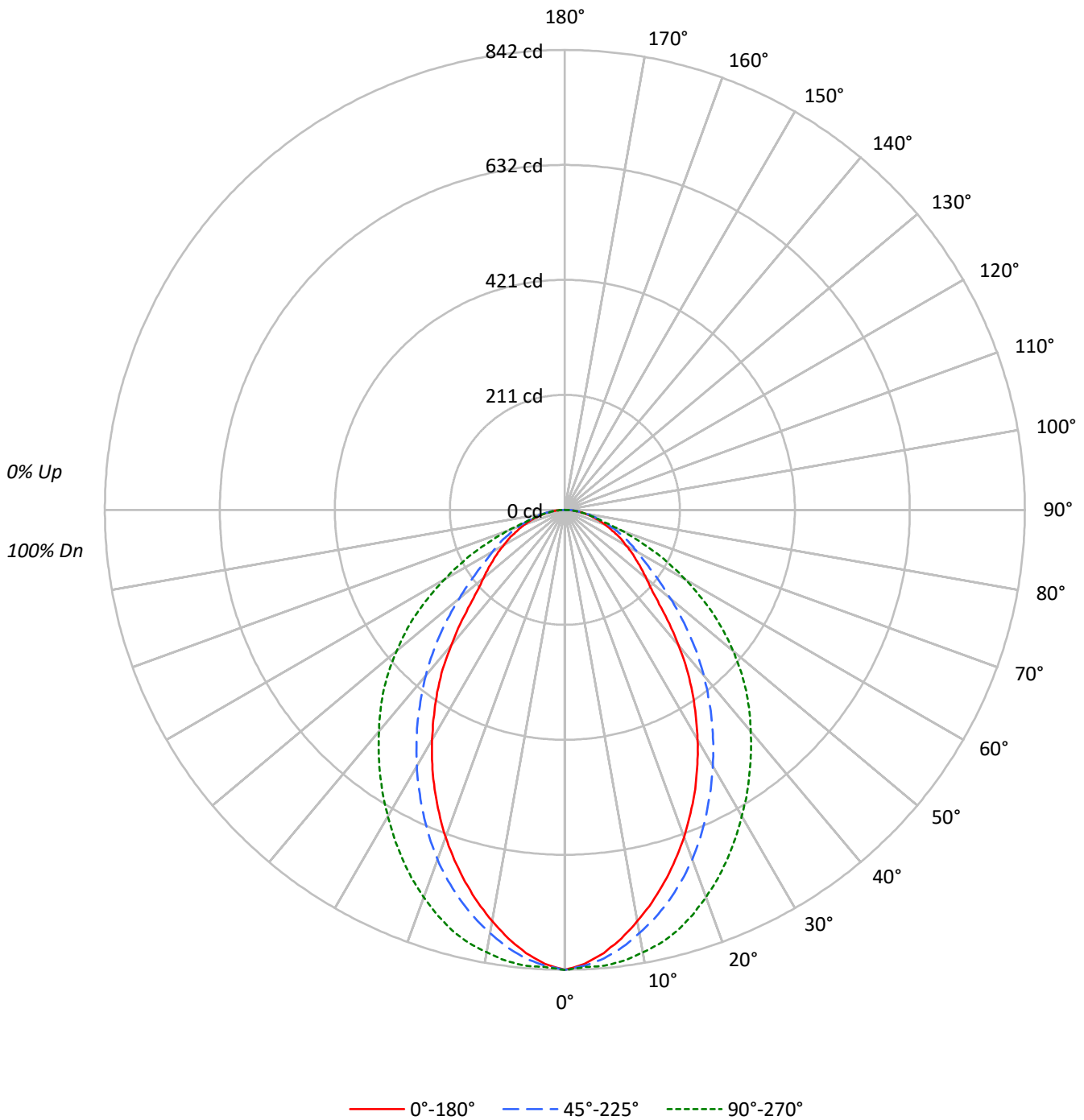
Lumens per Lamp: N/A
Luminaire Lumens: 1545.3 lumens
Efficiency: N/A
Efficacy: 59.9 lumens/watt
Spacing Criteria (0/90/45): 0.93 / 1.15 / 1.11
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

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	108	104	100	97	100	97	94	96	93	91	92	90	89				87	
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	80	77				75	
3	94	84	77	71	91	83	76	70	80	74	69	77	72	68	75	70	67				65	
4	86	76	68	62	84	74	67	61	72	66	60	70	64	60	68	63	59				57	
5	80	68	60	54	78	67	60	54	65	59	53	63	58	53	62	56	52				50	
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	57	51	47				45	
7	70	57	49	43	68	56	49	43	55	48	43	53	47	43	52	47	42				40	
8	65	53	45	39	64	52	44	39	51	44	39	49	43	39	48	43	38				37	
9	61	49	41	36	60	48	41	36	47	40	35	46	40	35	45	39	35				33	
10	58	45	38	33	56	45	38	33	44	37	33	43	37	32	42	36	32				31	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7252	7252	7252
5°	7041	7125	7241
10°	6687	6882	7195
15°	6285	6591	7110
20°	5846	6242	6919
25°	5361	5828	6692
30°	4831	5387	6439
35°	4277	4928	6197
40°	3636	4448	5948
45°	2978	3930	5718
50°	2606	3375	5381
55°	2395	2910	4980
60°	2220	2618	4390
65°	2080	2459	3676
70°	1951	2251	2759
75°	1837	2059	2010
80°	1701	1884	1701
85°	1551	1838	1472

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5718 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.8	5.0
10°-20°	209.4	13.6
20°-30°	286.2	18.5
30°-40°	300.8	19.5
40°-50°	261.1	16.9
50°-60°	196.9	12.7
60°-70°	127.6	8.3
70°-80°	65.5	4.2
80°-90°	19.9	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°	573.5	37.1
0°-40°	874.3	56.6
0°-60°	1332.3	86.2
0°-90°	1545.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1545.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	842	842	842	842	842	
5°	815	826	824	831	838	76
15°	705	722	739	773	798	198
25°	564	584	613	660	704	259
35°	407	429	469	531	590	253
45°	244	268	323	403	470	192
55°	160	164	194	275	332	144
65°	102	104	121	146	180	102
75°	55	62	62	63	60	59
85°	16	19	19	18	15	18
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	842.2	842.2	842.2	842.2	842.2
2.5°	832.5	842.9	835.5	837.0	837.7
5°	814.6	825.8	824.3	831.0	837.7
7.5°	791.5	804.9	807.9	821.3	832.5
10°	764.7	779.6	787.0	808.6	822.8
12.5°	736.3	751.2	764.7	792.2	812.4
15°	705.0	722.2	739.3	772.9	797.5
17.5°	672.2	690.1	711.7	748.3	777.3
20°	638.0	655.8	681.2	720.7	755.0
22.5°	601.4	621.6	648.4	690.9	731.1
25°	564.2	584.3	613.4	660.3	704.3
27.5°	525.4	546.3	577.6	629.8	676.7
30°	485.9	508.3	541.8	597.0	647.6
32.5°	445.7	469.5	505.3	564.2	619.3
35°	406.9	429.3	468.8	531.4	589.5
37.5°	366.7	389.0	431.5	499.3	559.7
40°	323.5	348.0	395.7	465.8	529.1
42.5°	283.2	307.8	359.2	433.8	500.1
45°	244.5	267.6	322.7	403.2	469.5
47.5°	214.6	231.0	286.2	373.4	436.7
50°	194.5	202.0	251.9	340.6	401.7
52.5°	176.6	182.6	220.6	307.8	367.4
55°	159.5	164.0	193.8	275.0	331.7
57.5°	144.6	146.8	169.9	242.2	292.9
60°	128.9	131.9	152.0	208.7	254.9
62.5°	116.3	117.8	136.4	176.6	216.9
65°	102.1	104.3	120.7	146.1	180.4
67.5°	89.4	93.2	104.3	119.2	142.3
70°	77.5	82.7	89.4	96.9	109.6
72.5°	66.3	72.3	76.0	79.0	76.8
75°	55.2	61.9	61.9	62.6	60.4
77.5°	44.7	50.7	49.9	49.2	46.2
80°	34.3	39.5	38.0	37.3	34.3
82.5°	25.3	29.1	27.6	26.8	23.1
85°	15.7	19.4	18.6	17.9	14.9
87.5°	7.5	11.2	10.4	9.7	6.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)