

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: P1060575

Luminaire Tested: S124RDR-S795D850-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1060575
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-74)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDR-S795D850-X4F0-XX-UDD-SVL-W
Description: DEFINE 4 WHITE REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

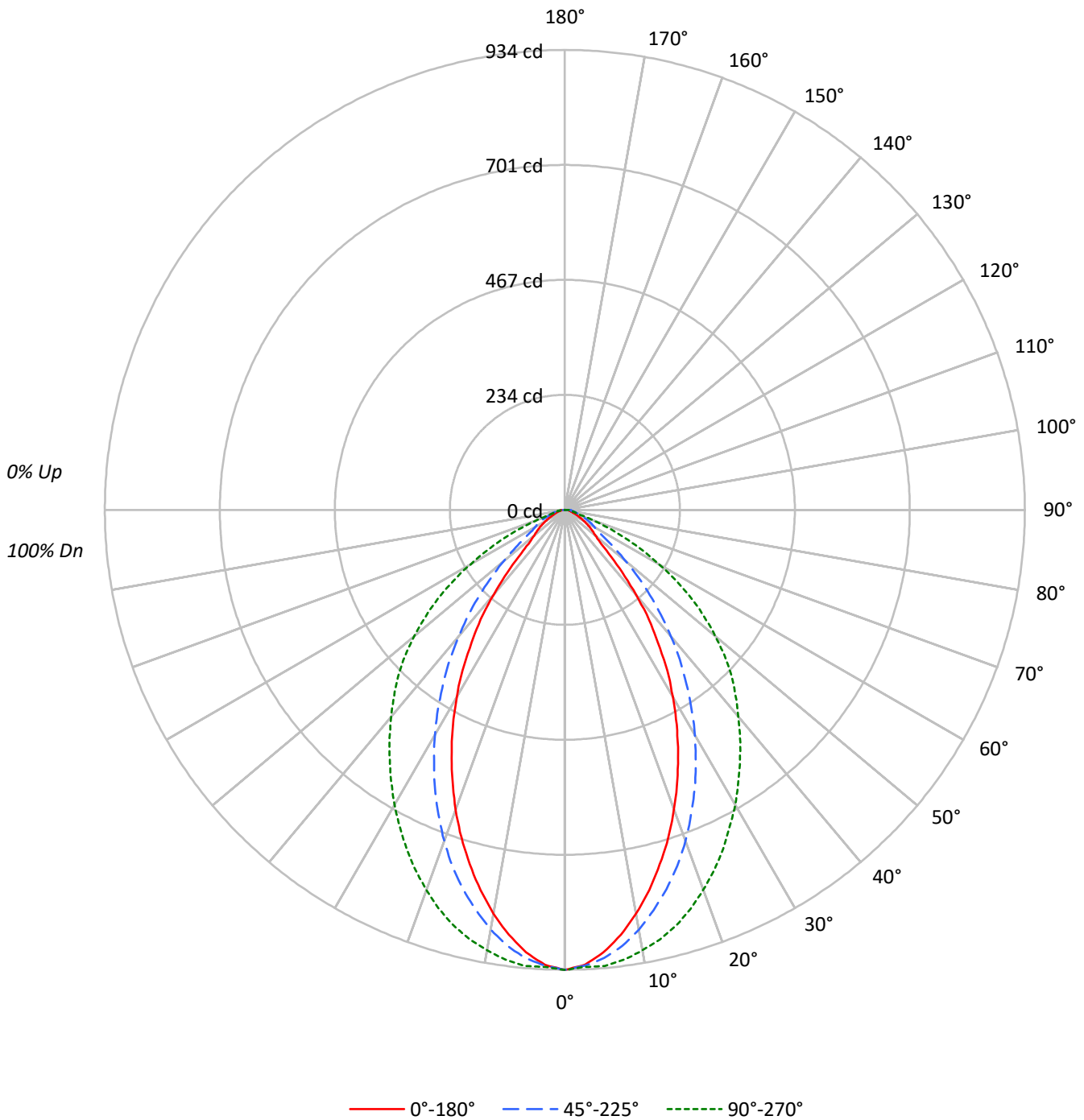
Lumens per Lamp: N/A
Luminaire Lumens: 1322.2 lumens
Efficiency: N/A
Efficacy: 51.2 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.12 / 1.01
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

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										
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	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	111	108	104	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89					89															
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79					79															
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	70					70															
4	90	80	73	68	88	79	72	67	77	71	66	75	70	66	73	68	65	63					63															
5	84	73	66	60	82	72	65	60	70	64	60	69	63	59	67	62	58	57					57															
6	79	67	60	54	77	67	59	54	65	59	54	63	58	53	62	57	53	51					51															
7	74	62	55	49	72	61	54	49	60	54	49	59	53	49	57	52	48	47					47															
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	53	48	44	43					43															
9	65	54	46	42	64	53	46	41	52	46	41	51	45	41	50	45	41	39					39															
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	36					36															

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8045	8045	8045
5°	7795	7895	8039
10°	7283	7566	7940
15°	6643	7109	7788
20°	5940	6561	7527
25°	5167	5931	7220
30°	4359	5251	6881
35°	3467	4520	6518
40°	2522	3766	6160
45°	1526	2974	5834
50°	1090	2153	5341
55°	925	1458	4717
60°	754	1187	3811
65°	595	1064	2743
70°	499	894	1445
75°	452	835	729
80°	466	828	724
85°	622	1235	830

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5834 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.0	6.5
10°-20°	225.4	17.0
20°-30°	292.3	22.1
30°-40°	281.4	21.3
40°-50°	209.3	15.8
50°-60°	128.7	9.7
60°-70°	63.2	4.8
70°-80°	24.7	1.9
80°-90°	11.2	0.9
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°	603.6	45.7
0°-40°	885.0	66.9
0°-60°	1223.0	92.5
0°-90°	1322.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1322.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	934	934	934	934	934	
5°	902	915	913	922	930	84
15°	745	769	797	845	874	208
25°	544	573	624	702	760	249
35°	330	361	430	538	620	206
45°	125	156	244	377	479	104
55°	62	64	97	221	314	55
65°	29	31	52	84	135	30
75°	14	24	25	23	22	15
85°	6	12	12	12	8	6
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	934.2	934.2	934.2	934.2	934.2
2.5°	924.8	935.2	926.9	927.9	928.9
5°	901.8	915.4	913.3	921.6	930.0
7.5°	870.5	886.1	893.5	910.2	921.6
10°	832.9	850.7	865.3	892.4	908.1
12.5°	791.2	812.0	832.9	869.4	893.5
15°	745.2	769.2	797.4	845.4	873.6
17.5°	698.3	722.3	758.8	814.1	849.6
20°	648.2	674.3	716.0	777.6	821.4
22.5°	596.0	624.2	670.1	740.0	792.2
25°	543.8	573.0	624.2	702.4	759.9
27.5°	491.6	519.8	575.1	662.8	725.4
30°	438.4	467.6	528.1	620.0	692.0
32.5°	387.2	414.4	479.1	579.3	655.5
35°	329.8	361.1	430.0	537.5	620.0
37.5°	280.8	309.0	383.1	495.8	584.5
40°	224.4	255.7	335.0	455.1	548.0
42.5°	172.2	203.5	289.1	414.4	513.5
45°	125.3	155.5	244.2	376.8	479.1
47.5°	95.0	112.7	200.4	340.3	440.5
50°	81.4	86.6	160.7	300.6	398.7
52.5°	72.0	74.1	125.3	260.9	357.0
55°	61.6	63.7	97.1	221.3	314.2
57.5°	52.2	53.2	78.3	183.7	268.2
60°	43.8	44.9	68.9	147.2	221.3
62.5°	36.5	37.6	61.6	113.8	176.4
65°	29.2	31.3	52.2	83.5	134.6
67.5°	24.0	28.2	43.8	58.5	93.9
70°	19.8	27.1	35.5	40.7	57.4
72.5°	16.7	25.1	30.3	29.2	28.2
75°	13.6	24.0	25.1	23.0	21.9
77.5°	11.5	20.9	20.9	18.8	17.7
80°	9.4	16.7	16.7	16.7	14.6
82.5°	8.4	13.6	14.6	14.6	11.5
85°	6.3	11.5	12.5	12.5	8.4
87.5°	4.2	10.4	11.5	10.4	6.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)