

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2024 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: S124RDRP-S795D850-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
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: S124RDRP-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

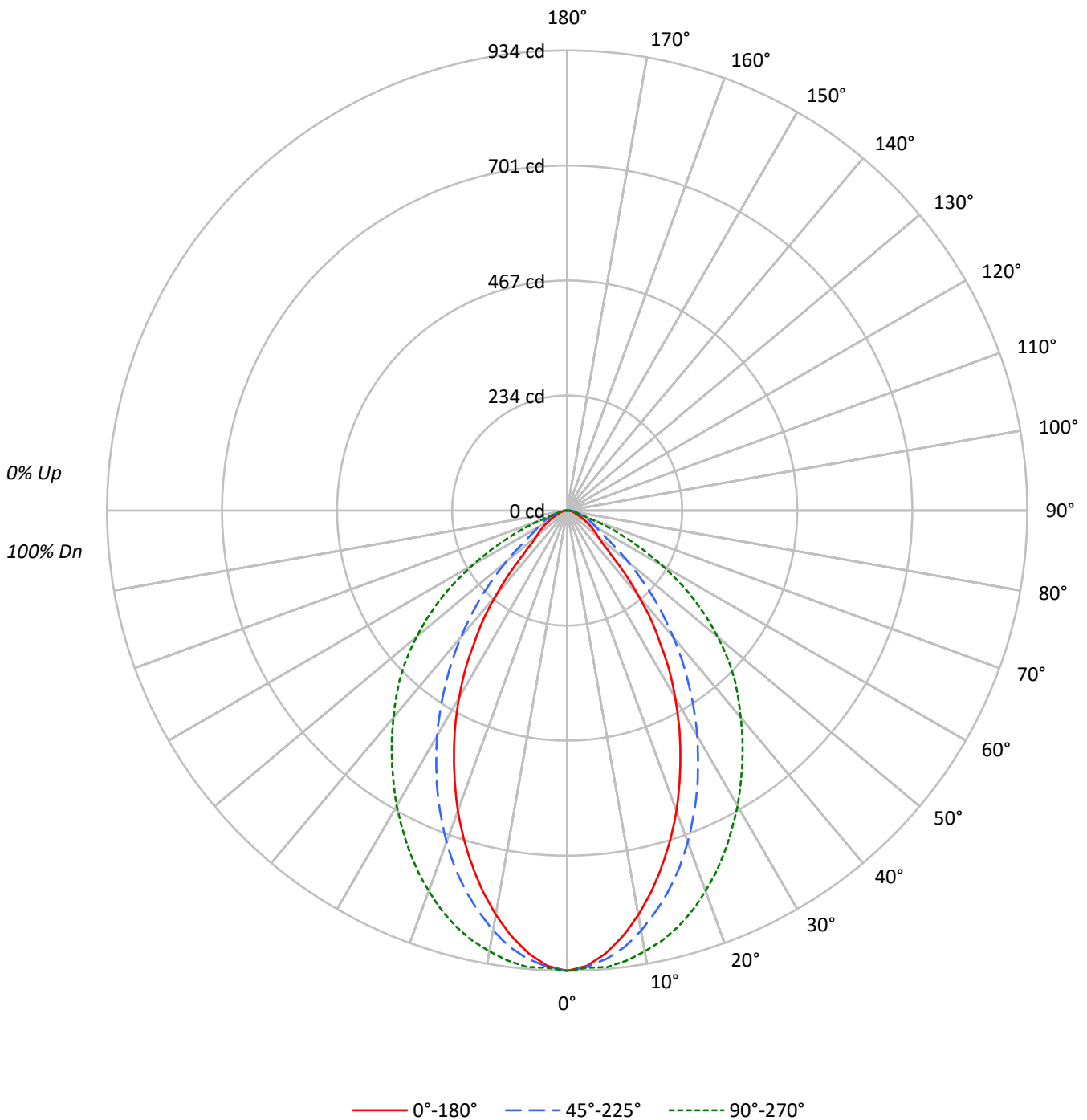
Lumens per Lamp: N/A
Luminaire Lumens: 1322.2 lumens
Efficiency: N/A
Efficacy: 51.2 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.12 / 1.01
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 25.8
Input Voltage (V): 120
Input Current (A_{in}): 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	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



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	7.03	8.37	7.39	8.68	9.00	16.20	17.54	16.56	17.85	18.17
	3H	8.14	9.33	8.52	9.66	10.02	16.70	17.89	17.08	18.22	18.59
	4H	8.66	9.77	9.06	10.12	10.50	16.72	17.83	17.13	18.18	18.57
	6H	9.09	10.11	9.51	10.48	10.88	16.73	17.75	17.15	18.12	18.52
	8H	9.28	10.25	9.71	10.64	11.05	16.74	17.70	17.17	18.10	18.50
	12H	9.47	10.39	9.90	10.77	11.20	16.74	17.66	17.17	18.05	18.48
4H	2H	8.17	9.28	8.57	9.63	10.02	16.09	17.20	16.49	17.55	17.93
	3H	9.51	10.42	9.93	10.83	11.23	16.68	17.59	17.09	17.99	18.39
	4H	10.25	11.06	10.68	11.48	11.92	16.74	17.55	17.17	17.97	18.41
	6H	10.86	11.56	11.32	12.01	12.47	16.81	17.51	17.27	17.96	18.43
	8H	11.10	11.76	11.57	12.21	12.68	16.84	17.50	17.31	17.95	18.42
	12H	11.34	11.92	11.83	12.40	12.88	16.88	17.46	17.37	17.95	18.42
8H	4H	10.72	11.37	11.19	11.82	12.29	16.69	17.35	17.16	17.80	18.27
	6H	11.57	12.10	12.07	12.60	13.08	16.82	17.36	17.32	17.86	18.34
	8H	11.98	12.46	12.50	12.97	13.47	16.91	17.39	17.43	17.90	18.40
	12H	12.40	12.83	12.91	13.32	13.89	17.03	17.45	17.54	17.95	18.52
12H	4H	10.77	11.35	11.26	11.83	12.31	16.67	17.25	17.15	17.73	18.20
	6H	11.70	12.18	12.22	12.70	13.19	16.80	17.29	17.32	17.80	18.29
	8H	12.22	12.65	12.74	13.15	13.72	16.94	17.36	17.45	17.86	18.43