

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: P1175433

Luminaire Tested: S125RDRP-H850D930-X4F0-XX-UDD-WVL-W

Issue Date: 8/18/2025

Test Information

Test Method: LM-79-2024
Report Number: P1175433
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-82)
Test Lab: INNOVATION CENTER
Issue Date: 8/18/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-H850D930-X4F0-XX-UDD-WVL-W
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER
HIGH PERFORMANCE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

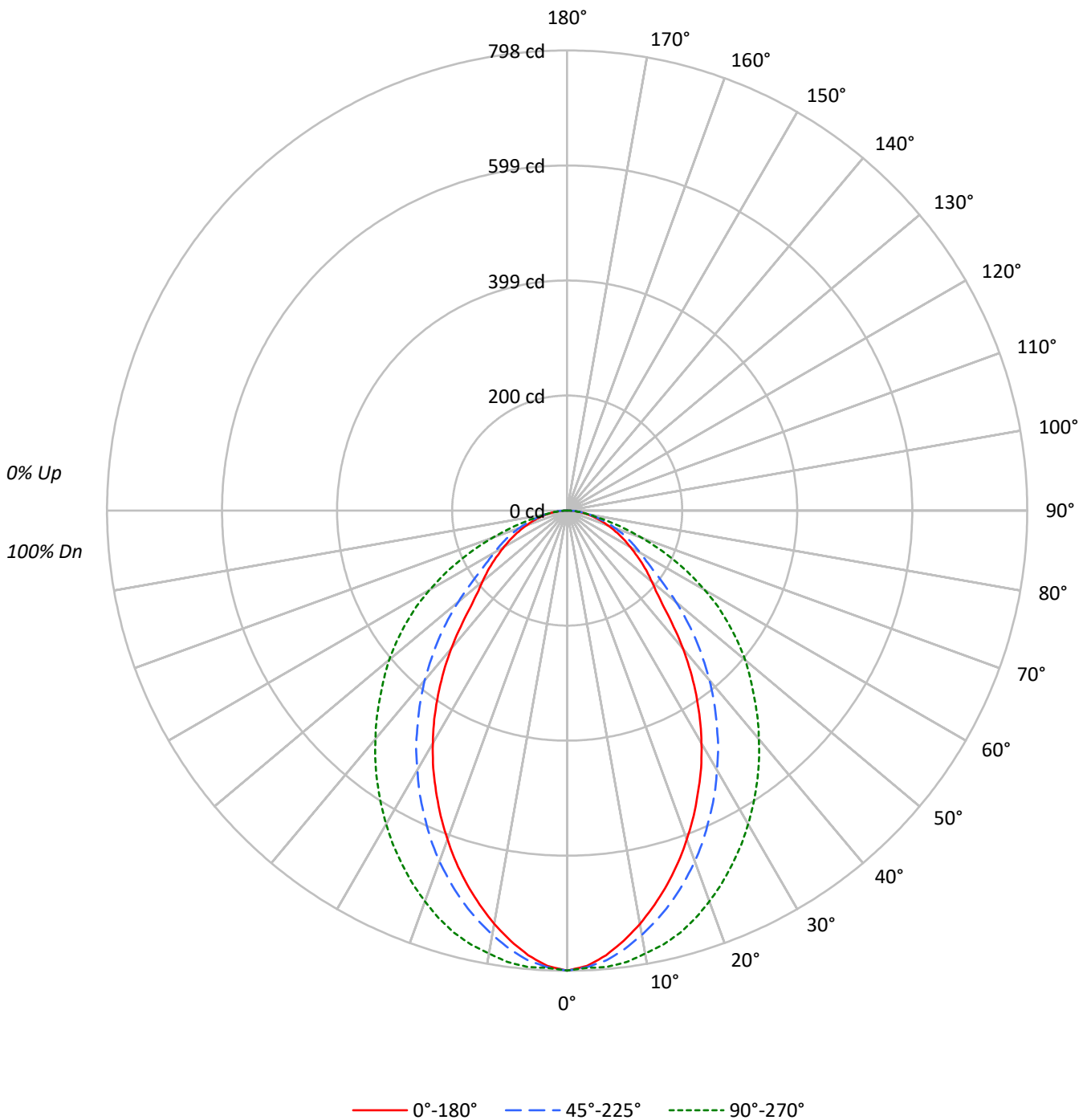
Lumens per Lamp: N/A
Luminaire Lumens: 1502.9 lumens
Efficiency: N/A
Efficacy: 64.0 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 23.5
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76	74
3	93	84	76	71	91	82	75	70	79	73	69	77	72	68	74	70	66	64
4	86	75	67	61	84	74	66	61	72	65	60	69	64	59	67	62	58	56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44
7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40
8	65	52	44	39	63	51	44	39	50	43	38	49	43	38	48	42	38	36
9	61	48	40	35	59	48	40	35	46	40	35	45	39	35	44	39	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5492	5492	5492
5°	5350	5410	5490
10°	5090	5222	5454
15°	4784	5001	5402
20°	4446	4744	5284
25°	4085	4445	5145
30°	3704	4129	4991
35°	3279	3797	4827
40°	2812	3451	4650
45°	2308	3073	4470
50°	2052	2640	4316
55°	1894	2211	4097
60°	1743	2015	3795
65°	1621	1898	3354
70°	1514	1772	2740
75°	1423	1639	2054
80°	1344	1503	1475
85°	1232	1501	1232

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4470 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.9	4.9
10°-20°	199.1	13.2
20°-30°	273.9	18.2
30°-40°	290.5	19.3
40°-50°	254.2	16.9
50°-60°	195.1	13.0
60°-70°	129.9	8.6
70°-80°	66.6	4.4
80°-90°	19.8	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°	546.8	36.4
0°-40°	837.2	55.7
0°-60°	1286.5	85.6
0°-90°	1502.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1502.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	798	798	798	798	798	
5°	774	784	783	788	794	72
15°	671	687	702	735	758	188
25°	538	556	585	634	677	247
35°	390	408	452	518	574	243
45°	237	257	316	394	459	187
55°	158	161	184	274	341	141
65°	100	100	116	153	206	99
75°	54	57	62	65	77	57
85°	16	18	19	18	16	18
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	797.7	797.7	797.7	797.7	797.7
2.5°	790.3	798.4	792.3	793.0	793.7
5°	774.0	784.2	782.8	788.2	794.3
7.5°	752.4	763.2	766.6	780.1	789.6
10°	728.0	740.2	746.9	767.3	780.1
12.5°	700.2	714.4	725.3	751.7	770.6
15°	671.1	686.7	701.6	734.7	757.8
17.5°	639.9	655.5	675.2	713.1	740.8
20°	606.8	623.7	647.4	688.0	721.2
22.5°	572.9	590.5	617.6	662.3	700.2
25°	537.7	556.0	585.1	634.5	677.2
27.5°	503.1	520.1	553.9	606.8	653.5
30°	465.9	483.5	519.4	577.6	627.8
32.5°	428.7	446.3	487.6	548.5	601.3
35°	390.1	408.3	451.7	518.0	574.3
37.5°	351.5	370.4	418.5	486.9	546.5
40°	312.9	333.2	384.0	455.7	517.4
42.5°	273.6	295.3	348.8	425.3	488.9
45°	237.0	256.7	315.6	394.1	459.1
47.5°	210.6	222.1	280.4	362.3	430.7
50°	191.6	197.1	246.5	331.8	402.9
52.5°	174.7	178.1	213.3	303.4	372.5
55°	157.8	161.2	184.2	273.6	341.3
57.5°	141.5	143.6	162.5	243.8	310.2
60°	126.6	128.0	146.3	214.0	275.6
62.5°	113.1	113.8	130.7	183.5	241.1
65°	99.5	100.2	116.5	153.0	205.9
67.5°	87.4	87.4	102.9	125.3	172.0
70°	75.2	75.2	88.0	101.6	136.1
72.5°	64.3	65.7	74.5	81.9	106.3
75°	53.5	56.9	61.6	65.0	77.2
77.5°	43.3	47.4	49.4	50.8	51.5
80°	33.9	36.6	37.9	38.6	37.2
82.5°	25.1	27.1	27.8	27.8	25.7
85°	15.6	17.6	19.0	18.3	15.6
87.5°	7.4	10.2	10.8	9.5	7.4
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	12.53	14.03	12.90	14.35	14.66	16.56	18.06	16.92	18.37	18.69
	3H	14.12	15.47	14.50	15.79	16.16	17.95	19.29	18.32	19.62	19.98
	4H	14.77	16.03	15.17	16.37	16.75	18.35	19.61	18.75	19.96	20.34
	6H	15.27	16.44	15.69	16.81	17.20	18.56	19.72	18.97	20.09	20.48
	8H	15.46	16.56	15.88	16.95	17.36	18.62	19.72	19.04	20.11	20.51
	12H	15.58	16.64	16.01	17.02	17.45	18.65	19.71	19.08	20.09	20.52
4H	2H	13.30	14.56	13.70	14.91	15.29	16.69	17.95	17.09	18.30	18.68
	3H	15.09	16.13	15.50	16.53	16.93	18.26	19.30	18.67	19.71	20.11
	4H	15.85	16.80	16.29	17.21	17.65	18.77	19.71	19.20	20.13	20.56
	6H	16.49	17.31	16.95	17.76	18.22	19.09	19.91	19.55	20.36	20.82
	8H	16.72	17.49	17.19	17.93	18.40	19.19	19.96	19.66	20.40	20.87
	12H	16.90	17.58	17.38	18.06	18.53	19.27	19.95	19.75	20.43	20.90
8H	4H	16.24	17.00	16.70	17.45	17.92	18.87	19.63	19.33	20.08	20.55
	6H	17.02	17.65	17.51	18.14	18.62	19.29	19.92	19.78	20.41	20.89
	8H	17.33	17.90	17.85	18.41	18.90	19.45	20.01	19.96	20.52	21.01
	12H	17.59	18.10	18.10	18.59	19.15	19.58	20.09	20.09	20.58	21.14
12H	4H	16.28	16.96	16.76	17.44	17.91	18.87	19.55	19.35	20.03	20.50
	6H	17.09	17.66	17.60	18.17	18.66	19.30	19.87	19.81	20.38	20.87
	8H	17.47	17.98	17.98	18.47	19.03	19.51	20.01	20.02	20.50	21.07