

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: P1175433

Luminaire Tested: S125RDR-H850D930-X4F0-XX-UDD-WVL-W

Issue Date: 8/18/2025

Test Information

Test Method: LM-79-2019
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: S125RDR-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

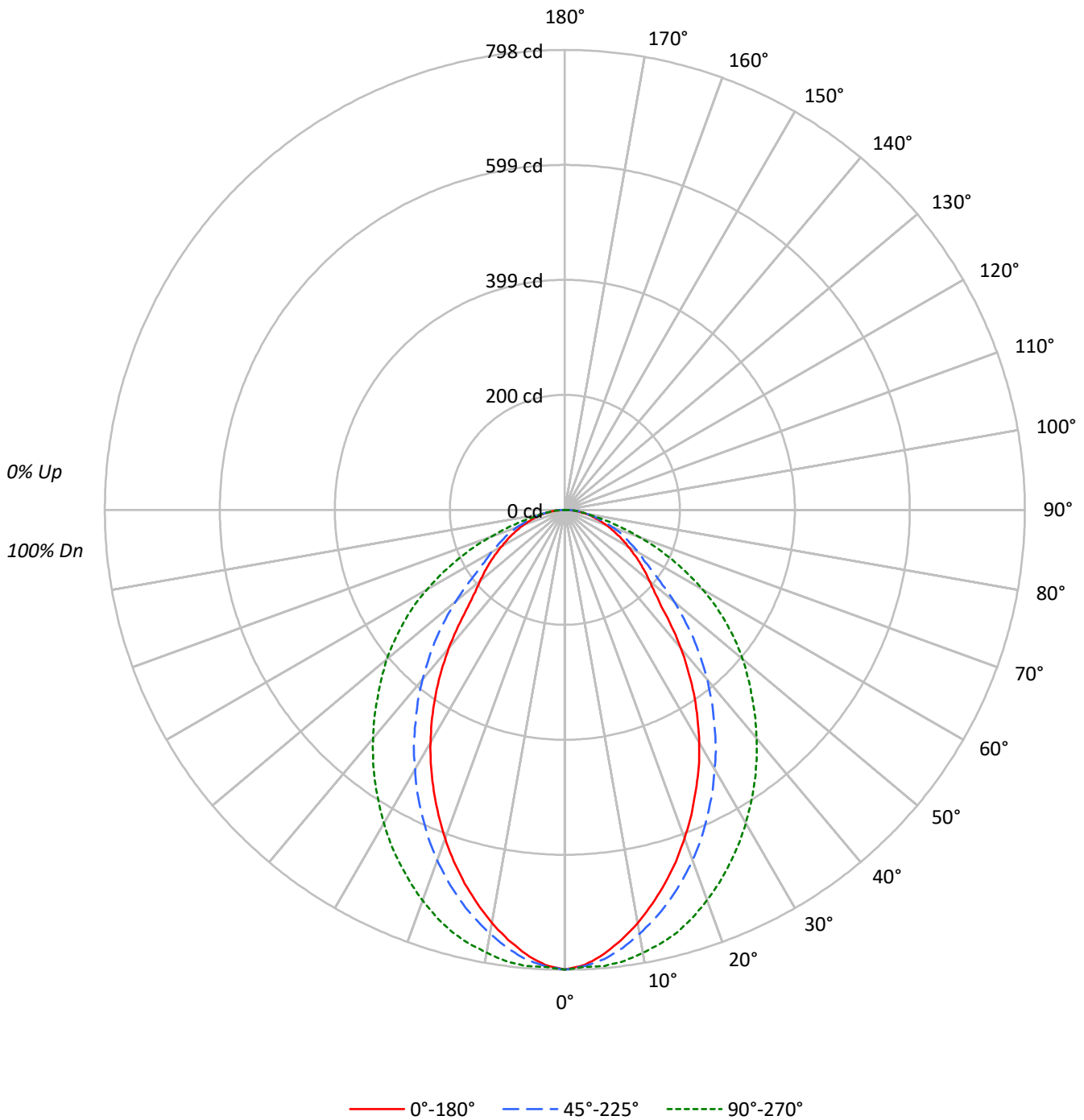
Lumens per Lamp: N/A
Luminaire Lumens: 1502.9 lumens
Efficiency: N/A
Efficacy: 64.0 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 23.5
Input Voltage (V): 120
Input Current (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

TEST NUMBER: P1175433

CATALOG NUMBER: S125RDR-H850D930-X4F0-XX-UDD-WVL-W

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	
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

(END OF REPORT)