

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: P1061566

Luminaire Tested: S125RDR-S1270D930-X4F0-XX-UDD-WVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061566
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-46)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S1270D930-X4F0-XX-UDD-WVL-B
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

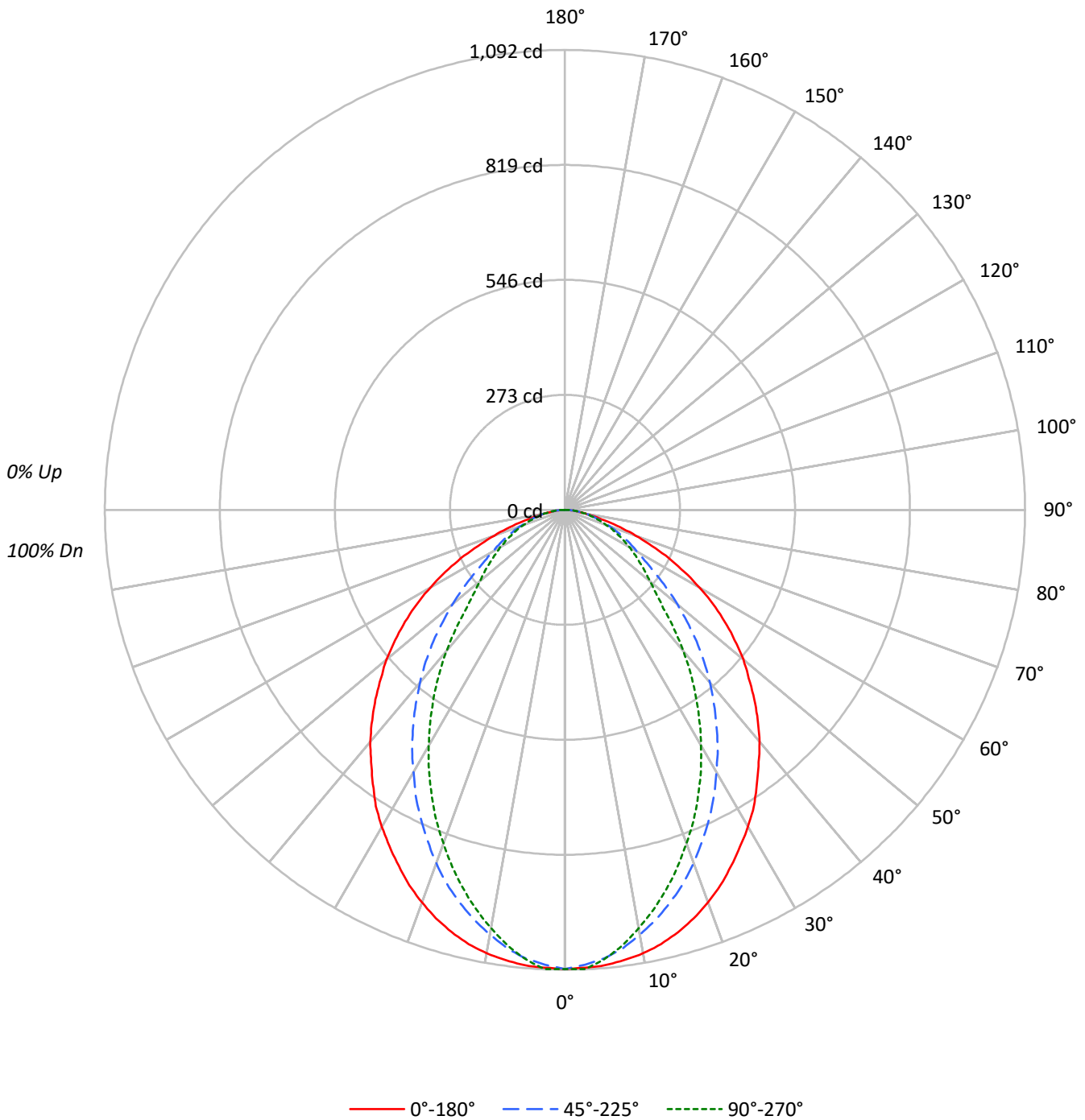
Lumens per Lamp: N/A
Luminaire Lumens: 2065.7 lumens
Efficiency: N/A
Efficacy: 49.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.95 / 1.11
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.8
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	100	100	100	100	100														
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87	87	87	87	87	87	87														
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	80	77	75	75	75	75	75	75	75														
3	93	84	77	71	91	82	76	70	80	74	69	77	72	68	74	70	67	65	65	65	65	65	65	65														
4	86	75	68	61	84	74	67	61	72	65	60	70	64	59	67	63	59	57	57	57	57	57	57	57														
5	80	68	60	54	78	67	59	54	65	58	53	63	57	53	61	56	52	50	50	50	50	50	50	50														
6	74	62	54	48	73	61	53	48	59	53	47	58	52	47	56	51	47	45	45	45	45	45	45	45														
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	40	40	40	40	40	40	40														
8	65	52	44	39	63	52	44	39	50	43	39	49	43	38	48	42	38	36	36	36	36	36	36	36														
9	61	48	41	35	60	48	40	35	47	40	35	46	39	35	45	39	35	33	33	33	33	33	33	33														
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	30	30	30	30	30	30	30														

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7508	7508	7508
5°	7504	7389	7406
10°	7475	7160	7052
15°	7401	6878	6642
20°	7269	6541	6177
25°	7088	6152	5685
30°	6909	5714	5139
35°	6677	5274	4557
40°	6460	4810	3927
45°	6191	4300	3216
50°	5922	3729	2815
55°	5557	3113	2601
60°	5070	2722	2429
65°	4436	2488	2256
70°	3599	2241	2098
75°	2583	2048	1953
80°	1784	1832	1832
85°	1311	1588	1683

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6191 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.4	4.9
10°-20°	274.2	13.3
20°-30°	379.0	18.3
30°-40°	403.7	19.5
40°-50°	354.6	17.2
50°-60°	268.9	13.0
60°-70°	174.6	8.5
70°-80°	86.5	4.2
80°-90°	22.7	1.1
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°	754.6	36.5
0°-40°	1158.3	56.1
0°-60°	1781.9	86.3
0°-90°	2065.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2065.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1090	1090	1090	1090	1090	
5°	1086	1083	1069	1073	1072	103
15°	1038	1015	965	942	932	292
25°	933	882	810	768	748	430
35°	794	721	628	571	542	497
45°	636	547	442	362	330	490
55°	463	372	259	224	217	413
65°	272	202	153	141	138	269
75°	97	85	77	75	73	108
85°	17	19	20	20	21	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1090.4	1090.4	1090.4	1090.4	1090.4
2.5°	1088.0	1090.4	1080.9	1089.2	1091.6
5°	1085.7	1083.3	1069.1	1072.7	1071.5
7.5°	1078.6	1073.8	1050.2	1047.8	1043.1
10°	1069.1	1057.3	1024.1	1015.8	1008.7
12.5°	1056.1	1037.1	996.9	980.3	972.0
15°	1038.3	1014.6	964.9	942.4	931.8
17.5°	1017.0	983.9	931.8	901.0	889.1
20°	992.1	953.1	892.7	857.2	843.0
22.5°	964.9	918.7	851.3	813.4	798.0
25°	933.0	882.0	809.8	768.4	748.3
27.5°	901.0	844.2	766.0	719.8	698.5
30°	869.0	803.9	718.7	668.9	646.4
32.5°	834.7	762.5	674.9	620.4	594.3
35°	794.4	721.0	627.5	570.7	542.2
37.5°	755.4	677.2	581.3	517.4	490.2
40°	718.7	635.8	535.1	465.3	436.9
42.5°	677.2	592.0	489.0	415.6	383.6
45°	635.8	547.0	441.6	362.3	330.3
47.5°	592.0	504.4	391.9	313.7	292.4
50°	552.9	460.6	348.1	277.0	262.8
52.5°	507.9	417.9	303.1	248.6	239.2
55°	462.9	371.8	259.3	223.8	216.7
57.5°	416.7	330.3	225.0	202.5	195.4
60°	368.2	287.7	197.7	180.0	176.4
62.5°	319.7	243.9	174.0	161.0	156.3
65°	272.3	202.5	152.7	140.9	138.5
67.5°	223.8	164.6	131.4	123.1	121.9
70°	178.8	133.8	111.3	106.6	104.2
72.5°	137.3	106.6	93.5	90.0	88.8
75°	97.1	85.2	77.0	74.6	73.4
77.5°	65.1	65.1	61.6	59.2	60.4
80°	45.0	47.4	46.2	46.2	46.2
82.5°	29.6	32.0	33.2	33.2	33.2
85°	16.6	18.9	20.1	20.1	21.3
87.5°	5.9	7.1	8.3	9.5	9.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)