

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: P1061562

Luminaire Tested: S125RDR-S1270D930-X4F0-XX-UDD-BVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061562
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-84)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S1270D930-X4F0-XX-UDD-BVL-W
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

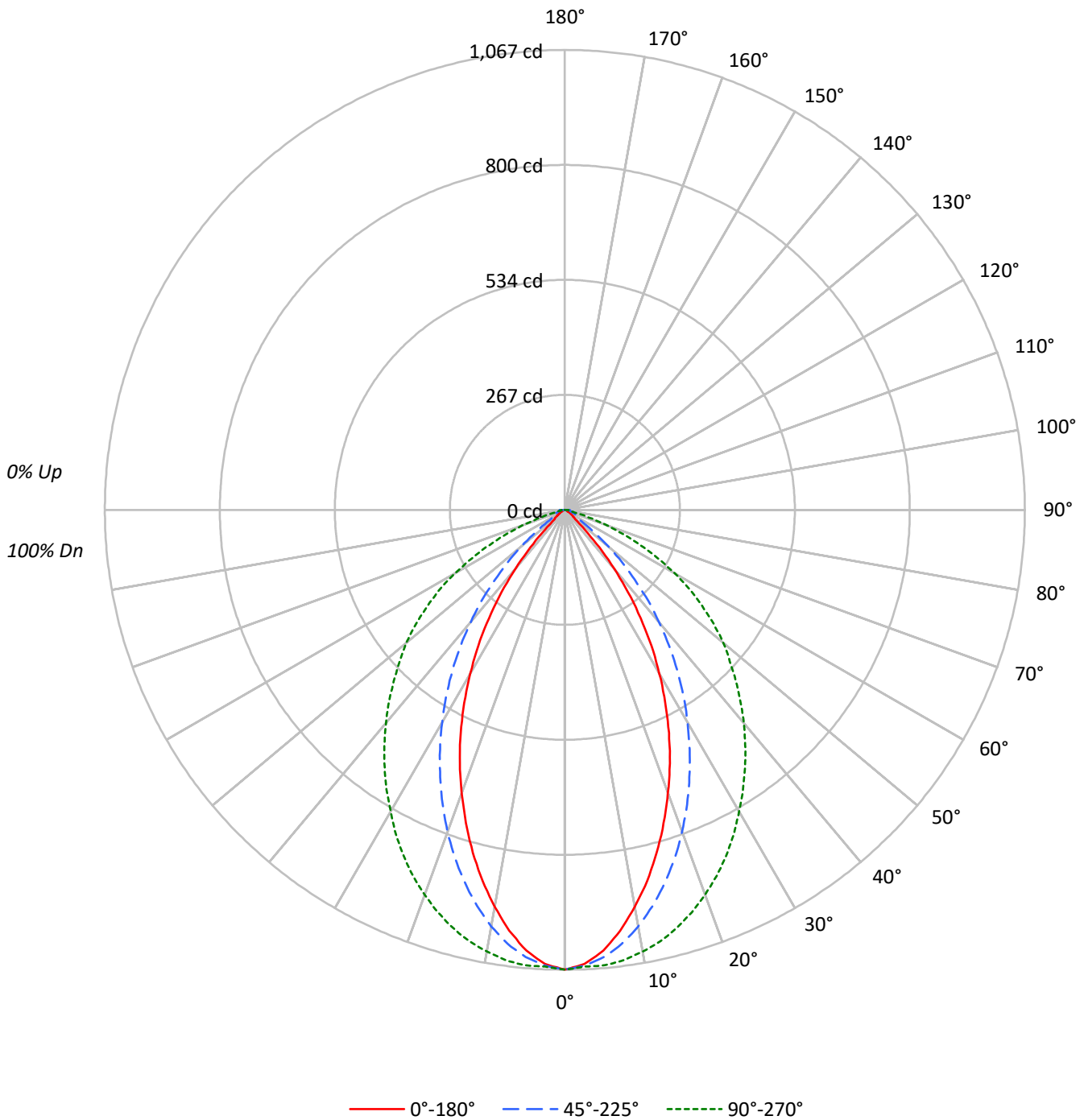
Lumens per Lamp: N/A
Luminaire Lumens: 1380.0 lumens
Efficiency: N/A
Efficacy: 33.0 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.14 / 0.98
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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					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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90				90
2	104	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80				80
3	98	89	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72				72
4	91	82	75	70	89	81	74	69	78	73	68	76	71	67	74	70	67	65				65
5	85	75	68	63	83	74	67	62	72	66	62	70	65	61	69	64	60	59				59
6	80	69	62	57	78	68	61	56	67	60	56	65	60	56	64	59	55	53				53
7	75	64	57	52	74	63	56	51	62	56	51	60	55	51	59	54	50	49				49
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	46	45				45
9	67	55	48	44	65	55	48	44	54	48	43	53	47	43	52	47	43	41				41
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	44	40	38				38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7344	7344	7344
5°	7093	7200	7331
10°	6538	6861	7275
15°	5871	6387	7155
20°	5123	5827	6964
25°	4339	5195	6726
30°	3486	4523	6426
35°	2580	3815	6127
40°	1598	3047	5805
45°	623	2227	5459
50°	292	1397	5142
55°	214	598	4666
60°	147	424	4047
65°	96	445	3148
70°	95	405	1981
75°	125	410	630
80°	186	472	424
85°	284	940	656

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5459 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.8	7.1
10°-20°	253.4	18.4
20°-30°	322.8	23.4
30°-40°	300.5	21.8
40°-50°	206.8	15.0
50°-60°	117.1	8.5
60°-70°	55.3	4.0
70°-80°	17.3	1.3
80°-90°	9.0	0.7
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°	674.1	48.8
0°-40°	974.5	70.6
0°-60°	1298.4	94.1
0°-90°	1380.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1380.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1067	1067	1067	1067	1067	
5°	1026	1041	1042	1051	1061	95
15°	824	851	896	964	1004	229
25°	571	608	684	799	885	260
35°	307	350	454	609	729	190
45°	64	102	229	414	561	60
55°	18	20	50	238	389	16
65°	6	7	27	85	193	7
75°	5	11	15	17	24	5
85°	4	10	12	11	8	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1066.6	1066.6	1066.6	1066.6	1066.6
2.5°	1054.8	1065.5	1058.3	1059.5	1060.7
5°	1026.3	1040.6	1041.8	1051.2	1060.7
7.5°	984.9	1002.6	1015.7	1038.2	1053.6
10°	935.1	956.4	981.3	1018.1	1040.6
12.5°	881.8	906.6	941.0	993.2	1025.2
15°	823.7	850.9	896.0	963.5	1003.8
17.5°	762.1	792.9	847.4	928.0	978.9
20°	699.2	732.4	795.2	887.7	950.5
22.5°	636.4	670.8	740.7	843.8	919.7
25°	571.2	608.0	683.8	798.8	885.3
27.5°	504.9	542.8	627.0	752.6	848.6
30°	438.5	478.8	568.9	705.2	808.3
32.5°	373.3	413.6	512.0	657.8	769.2
35°	307.0	349.6	453.9	609.2	728.9
37.5°	240.6	286.8	397.0	559.4	687.4
40°	177.8	221.6	339.0	510.8	645.9
42.5°	118.5	161.2	286.8	462.2	603.2
45°	64.0	101.9	228.7	413.6	560.6
47.5°	34.4	54.5	179.0	366.2	519.1
50°	27.3	30.8	130.4	322.4	480.0
52.5°	22.5	24.9	85.3	280.9	435.0
55°	17.8	20.1	49.8	238.2	388.7
57.5°	14.2	16.6	32.0	197.9	343.7
60°	10.7	13.0	30.8	158.8	293.9
62.5°	8.3	9.5	28.4	122.1	241.8
65°	5.9	7.1	27.3	85.3	193.2
67.5°	4.7	5.9	24.9	54.5	144.6
70°	4.7	4.7	20.1	35.6	98.4
72.5°	4.7	8.3	17.8	23.7	59.3
75°	4.7	10.7	15.4	16.6	23.7
77.5°	4.7	11.9	13.0	13.0	13.0
80°	4.7	10.7	11.9	11.9	10.7
82.5°	4.7	9.5	10.7	11.9	9.5
85°	3.6	9.5	11.9	10.7	8.3
87.5°	3.6	9.5	10.7	9.5	5.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)