

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: P1061475

Luminaire Tested: S125RDR-S1090D927-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061475
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-83)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S1090D927-X4F0-XX-UDD-SVL-W
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

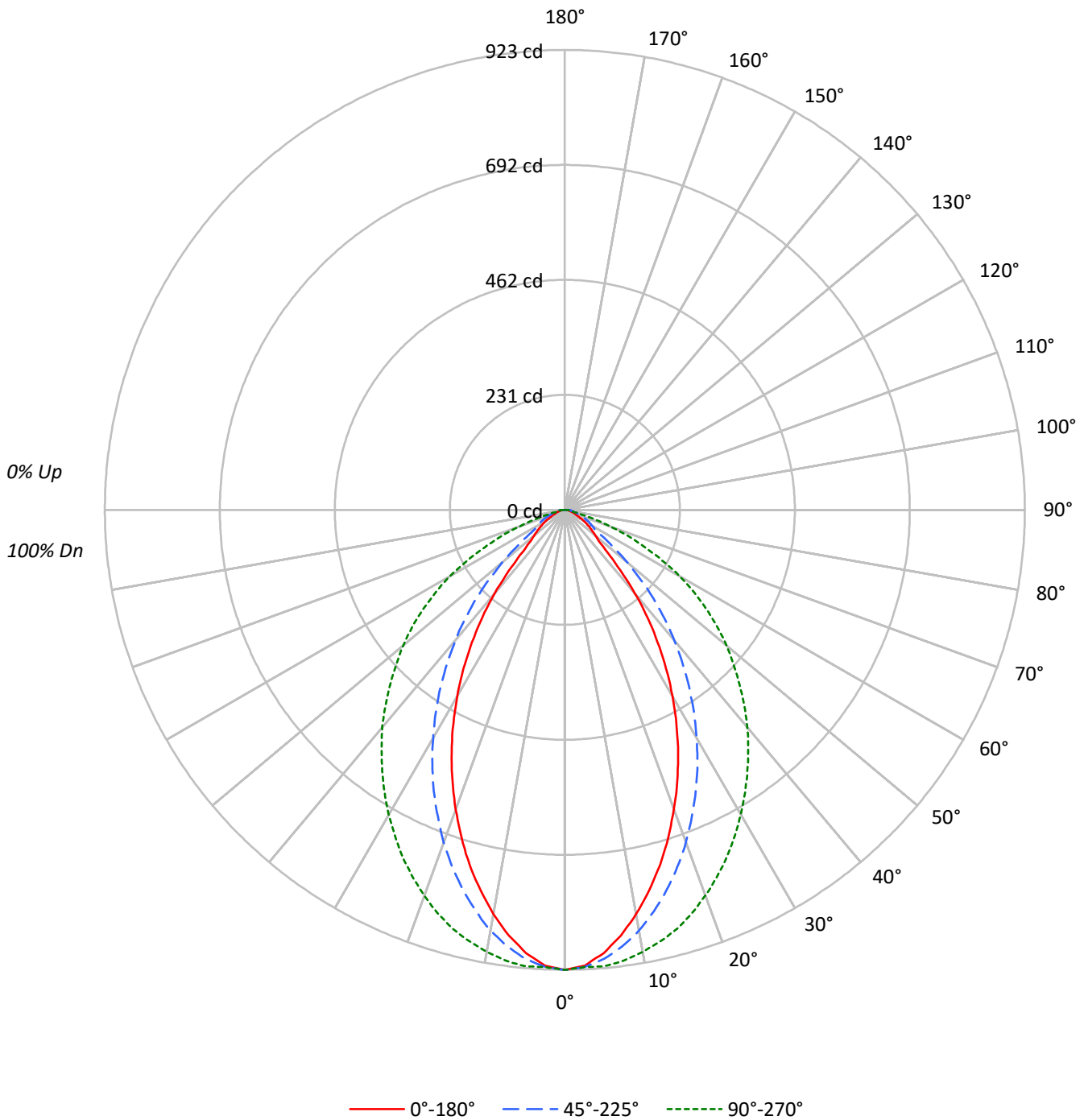
Lumens per Lamp: N/A
Luminaire Lumens: 1337.2 lumens
Efficiency: N/A
Efficacy: 38.2 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 35
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				
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	111	108	104	101	109	105	103	100	101	99	97	98	96	94	94	92	91	89		
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79		
3	96	88	81	76	94	86	80	76	84	79	74	81	77	73	79	75	72	70		
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	62		
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	66	62	58	56		
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51		
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46		
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42		
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	40	39		
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6356	6356	6356
5°	6171	6251	6354
10°	5762	5995	6297
15°	5259	5630	6203
20°	4687	5204	6038
25°	4084	4725	5844
30°	3432	4204	5616
35°	2729	3653	5368
40°	1967	3069	5123
45°	1166	2436	4824
50°	861	1734	4540
55°	730	1072	4157
60°	595	865	3662
65°	464	800	2893
70°	395	690	1935
75°	364	601	782
80°	389	623	543
85°	466	932	616

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4824 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.1	6.4
10°-20°	223.5	16.7
20°-30°	292.1	21.8
30°-40°	284.5	21.3
40°-50°	213.4	16.0
50°-60°	133.8	10.0
60°-70°	69.6	5.2
70°-80°	25.2	1.9
80°-90°	10.0	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°	600.6	44.9
0°-40°	885.2	66.2
0°-60°	1232.4	92.2
0°-90°	1337.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1337.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	923	923	923	923	923	
5°	893	904	904	911	919	83
15°	738	759	790	839	870	206
25°	538	567	622	706	769	246
35°	325	359	435	550	639	202
45°	120	155	250	386	495	101
55°	61	64	89	234	346	54
65°	28	30	49	94	178	29
75°	14	19	23	24	29	15
85°	6	10	12	11	8	6
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	923.2	923.2	923.2	923.2	923.2
2.5°	915.3	924.2	918.3	918.3	918.3
5°	892.8	904.5	904.5	911.4	919.3
7.5°	861.4	875.1	883.9	900.6	912.4
10°	824.1	840.8	857.5	884.9	900.6
12.5°	781.9	801.5	825.1	863.3	886.9
15°	737.8	759.3	789.8	838.8	870.2
17.5°	689.7	715.2	751.5	810.4	848.6
20°	639.7	665.2	710.3	777.0	824.1
22.5°	589.6	617.1	666.1	741.7	797.6
25°	537.6	567.1	622.0	706.4	769.2
27.5°	484.6	515.1	575.9	670.1	737.8
30°	431.7	463.1	528.8	630.8	706.4
32.5°	378.7	412.1	481.7	590.6	673.0
35°	324.7	359.1	434.6	550.4	638.7
37.5°	272.7	307.1	387.5	509.2	604.3
40°	218.8	256.1	341.4	468.0	570.0
42.5°	165.8	204.1	295.3	426.8	532.7
45°	119.7	155.0	250.2	386.5	495.4
47.5°	92.2	111.8	204.1	345.3	459.1
50°	80.4	86.3	161.9	307.1	423.8
52.5°	69.7	73.6	121.7	271.8	385.6
55°	60.8	63.8	89.3	233.5	346.3
57.5°	51.0	54.9	70.6	196.2	306.1
60°	43.2	45.1	62.8	161.9	265.9
62.5°	35.3	37.3	55.9	127.5	220.7
65°	28.5	30.4	49.1	94.2	177.6
67.5°	23.5	24.5	41.2	66.7	136.4
70°	19.6	20.6	34.3	46.1	96.1
72.5°	16.7	19.6	27.5	33.4	60.8
75°	13.7	18.6	22.6	23.5	29.4
77.5°	11.8	17.7	18.6	18.6	16.7
80°	9.8	14.7	15.7	14.7	13.7
82.5°	7.8	11.8	12.8	12.8	10.8
85°	5.9	9.8	11.8	10.8	7.8
87.5°	3.9	8.8	9.8	8.8	5.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)