

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: P1061481

Luminaire Tested: S125RDR-S1090D930-X4F0-XX-UDD-BVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061481
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-S1090D930-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

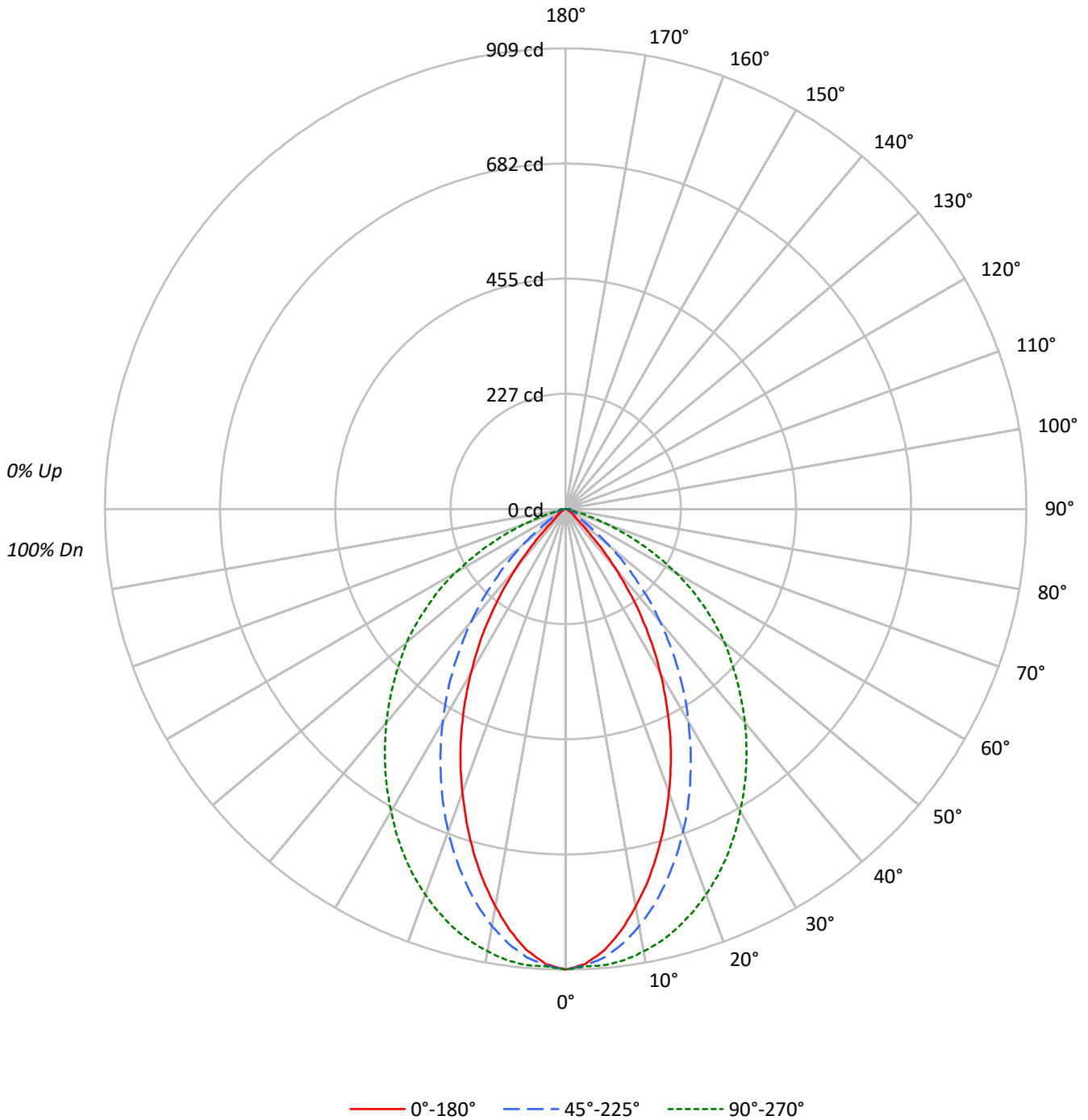
Lumens per Lamp: N/A
Luminaire Lumens: 1175.9 lumens
Efficiency: N/A
Efficacy: 33.6 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.14 / 0.98
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6258	6258	6258
5°	6044	6135	6247
10°	5571	5846	6199
15°	5003	5442	6097
20°	4365	4965	5934
25°	3697	4427	5731
30°	2970	3854	5475
35°	2199	3251	5221
40°	1362	2596	4947
45°	531	1898	4651
50°	249	1190	4381
55°	181	509	3976
60°	125	362	3448
65°	81	378	2682
70°	81	346	1687
75°	106	348	537
80°	159	400	361
85°	237	798	561

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4651 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.3	7.1
10°-20°	216.0	18.4
20°-30°	275.1	23.4
30°-40°	256.0	21.8
40°-50°	176.2	15.0
50°-60°	99.8	8.5
60°-70°	47.1	4.0
70°-80°	14.7	1.3
80°-90°	7.7	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°	574.4	48.8
0°-40°	830.4	70.6
0°-60°	1106.3	94.1
0°-90°	1175.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1175.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	909	909	909	909	909	
5°	874	887	888	896	904	81
15°	702	725	763	821	855	195
25°	487	518	583	681	754	222
35°	262	298	387	519	621	162
45°	54	87	195	352	478	51
55°	15	17	42	203	331	14
65°	5	6	23	73	165	6
75°	4	9	13	14	20	4
85°	3	8	10	9	7	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	908.9	908.9	908.9	908.9	908.9
2.5°	898.8	907.9	901.8	902.8	903.8
5°	874.5	886.6	887.7	895.7	903.8
7.5°	839.2	854.3	865.4	884.6	897.8
10°	796.8	814.9	836.2	867.5	886.6
12.5°	751.3	772.5	801.8	846.3	873.5
15°	701.8	725.1	763.4	821.0	855.3
17.5°	649.3	675.6	722.0	790.7	834.1
20°	595.8	624.1	677.6	756.4	809.9
22.5°	542.3	571.6	631.2	719.0	783.6
25°	486.7	518.1	582.7	680.6	754.4
27.5°	430.2	462.5	534.2	641.3	723.1
30°	373.6	408.0	484.7	600.9	688.7
32.5°	318.1	352.4	436.3	560.5	655.4
35°	261.6	297.9	386.8	519.1	621.1
37.5°	205.0	244.4	338.3	476.6	585.7
40°	151.5	188.8	288.8	435.2	550.4
42.5°	101.0	137.3	244.4	393.8	514.0
45°	54.5	86.8	194.9	352.4	477.7
47.5°	29.3	46.5	152.5	312.0	442.3
50°	23.2	26.3	111.1	274.7	409.0
52.5°	19.2	21.2	72.7	239.3	370.6
55°	15.1	17.2	42.4	203.0	331.2
57.5°	12.1	14.1	27.3	168.6	292.9
60°	9.1	11.1	26.3	135.3	250.4
62.5°	7.1	8.1	24.2	104.0	206.0
65°	5.0	6.1	23.2	72.7	164.6
67.5°	4.0	5.0	21.2	46.5	123.2
70°	4.0	4.0	17.2	30.3	83.8
72.5°	4.0	7.1	15.1	20.2	50.5
75°	4.0	9.1	13.1	14.1	20.2
77.5°	4.0	10.1	11.1	11.1	11.1
80°	4.0	9.1	10.1	10.1	9.1
82.5°	4.0	8.1	9.1	10.1	8.1
85°	3.0	8.1	10.1	9.1	7.1
87.5°	3.0	8.1	9.1	8.1	5.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)