

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: P1175396

Luminaire Tested: S125RDR-H1090D927-X4F0-XX-UDD-WVL-W

Issue Date: 8/18/2025

Test Information

Test Method: LM-79-2019
Report Number: P1175396
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-H1090D927-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: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

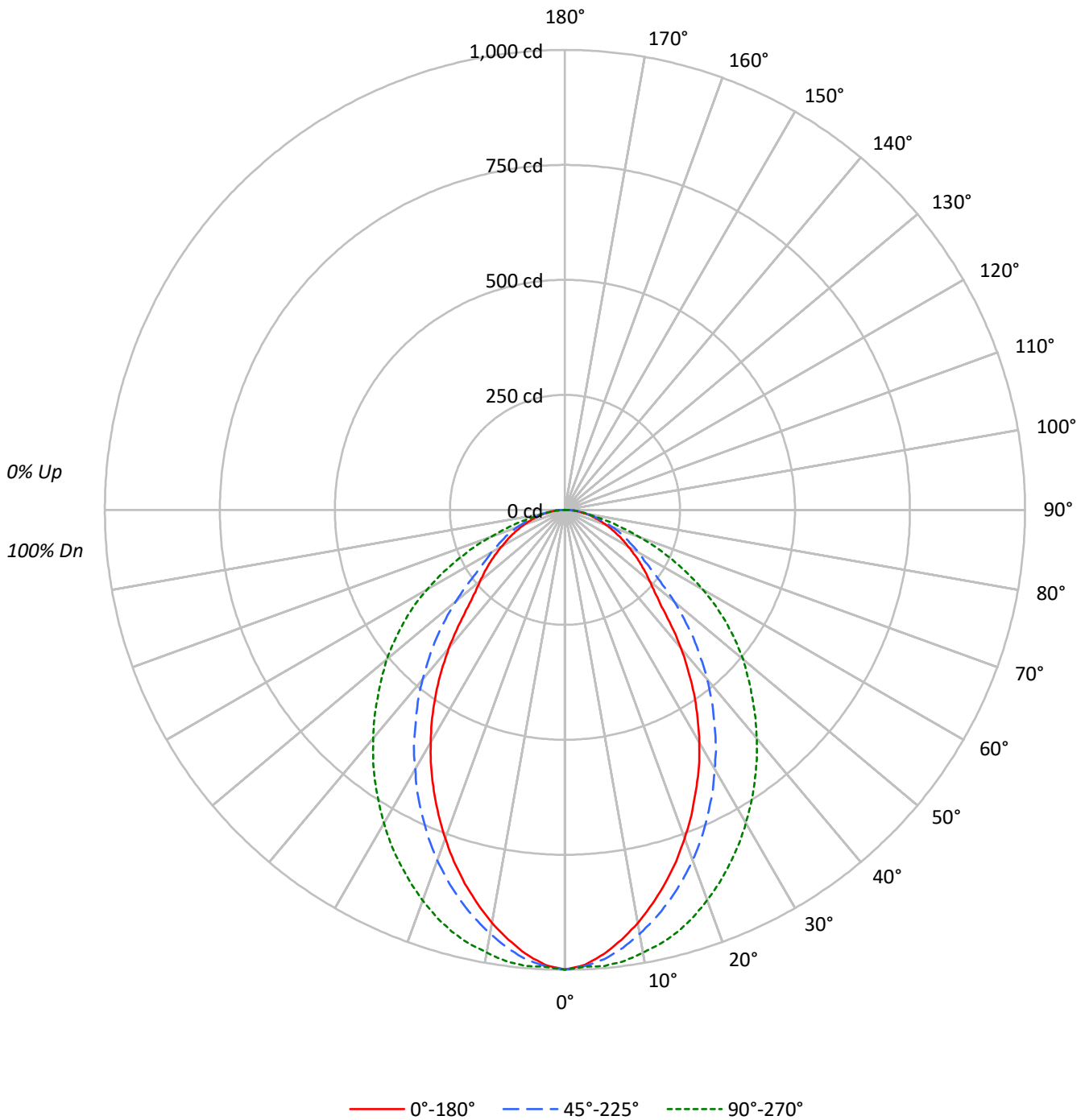
Lumens per Lamp: N/A
Luminaire Lumens: 1883.2 lumens
Efficiency: N/A
Efficacy: 60.4 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 31.2
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	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°	6882	6882	6882
5°	6704	6780	6880
10°	6378	6544	6834
15°	5994	6266	6768
20°	5571	5944	6622
25°	5119	5570	6447
30°	4641	5174	6254
35°	4109	4757	6048
40°	3523	4324	5827
45°	2892	3850	5602
50°	2572	3309	5408
55°	2373	2771	5134
60°	2185	2524	4756
65°	2032	2379	4203
70°	1896	2220	3434
75°	1782	2054	2572
80°	1681	1883	1852
85°	1540	1880	1540

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5602 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.5	4.9
10°-20°	249.4	13.2
20°-30°	343.2	18.2
30°-40°	364.0	19.3
40°-50°	318.6	16.9
50°-60°	244.4	13.0
60°-70°	162.8	8.6
70°-80°	83.5	4.4
80°-90°	24.8	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°	685.1	36.4
0°-40°	1049.1	55.7
0°-60°	1612.1	85.6
0°-90°	1883.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1883.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1000	1000	1000	1000	1000	
5°	970	983	981	988	995	91
15°	841	860	879	921	950	236
25°	674	697	733	795	849	309
35°	489	512	566	649	720	305
45°	297	322	395	494	575	235
55°	198	202	231	343	428	177
65°	125	126	146	192	258	124
75°	67	71	77	82	97	71
85°	20	22	24	23	20	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	999.6	999.6	999.6	999.6	999.6
2.5°	990.3	1000.5	992.8	993.7	994.5
5°	969.9	982.6	980.9	987.7	995.4
7.5°	942.7	956.3	960.6	977.5	989.4
10°	912.2	927.5	936.0	961.4	977.5
12.5°	877.4	895.2	908.8	941.9	965.7
15°	840.9	860.4	879.1	920.7	949.5
17.5°	801.9	821.4	846.0	893.5	928.3
20°	760.3	781.5	811.2	862.1	903.7
22.5°	717.9	739.9	773.9	829.9	877.4
25°	673.8	696.7	733.2	795.1	848.6
27.5°	630.5	651.7	694.1	760.3	818.9
30°	583.8	605.9	650.8	723.8	786.6
32.5°	537.1	559.2	611.0	687.3	753.5
35°	488.8	511.7	566.0	649.1	719.6
37.5°	440.4	464.2	524.4	610.1	684.8
40°	392.0	417.5	481.1	571.1	648.3
42.5°	342.8	370.0	437.0	532.9	612.7
45°	297.0	321.6	395.4	493.9	575.3
47.5°	263.9	278.3	351.3	454.0	539.7
50°	240.1	246.9	308.9	415.8	504.9
52.5°	218.9	223.2	267.3	380.2	466.7
55°	197.7	202.0	230.8	342.8	427.7
57.5°	177.3	179.9	203.7	305.5	388.6
60°	158.7	160.4	183.3	268.1	345.4
62.5°	141.7	142.6	163.8	230.0	302.1
65°	124.7	125.6	146.0	191.8	258.0
67.5°	109.5	109.5	129.0	157.0	215.5
70°	94.2	94.2	110.3	127.3	170.6
72.5°	80.6	82.3	93.3	102.7	133.2
75°	67.0	71.3	77.2	81.5	96.7
77.5°	54.3	59.4	61.9	63.6	64.5
80°	42.4	45.8	47.5	48.4	46.7
82.5°	31.4	33.9	34.8	34.8	32.2
85°	19.5	22.1	23.8	22.9	19.5
87.5°	9.3	12.7	13.6	11.9	9.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)