

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: P1061485

Luminaire Tested: S125RDR-S1090D930-X4F0-XX-UDD-WVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061485
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-S1090D930-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

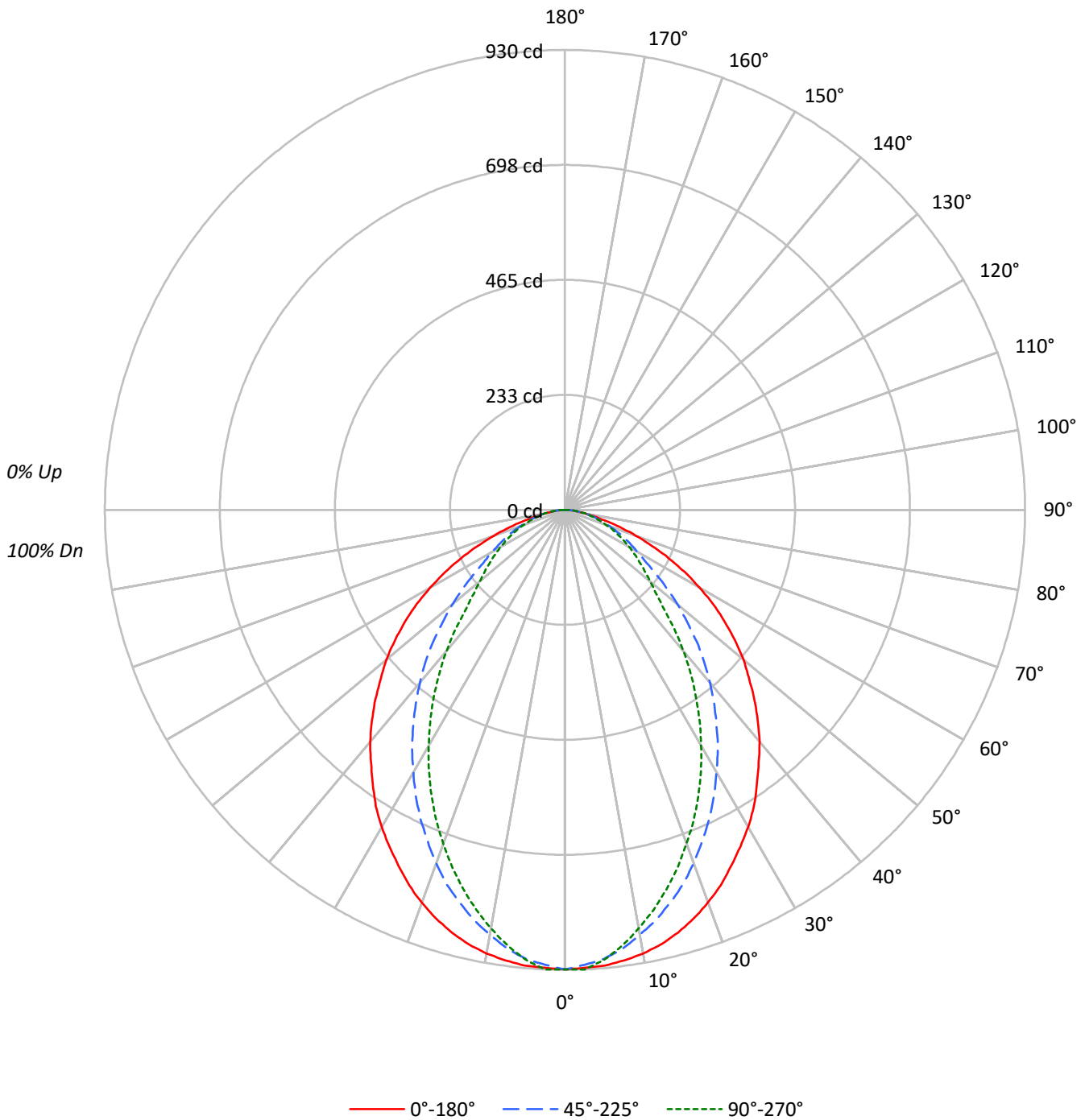
Lumens per Lamp: N/A
Luminaire Lumens: 1760.1 lumens
Efficiency: N/A
Efficacy: 50.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.95 / 1.11
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6397	6397	6397
5°	6394	6296	6310
10°	6369	6101	6009
15°	6306	5861	5659
20°	6194	5573	5263
25°	6039	5242	4844
30°	5887	4869	4379
35°	5690	4494	3883
40°	5504	4099	3346
45°	5275	3664	2741
50°	5046	3177	2399
55°	4734	2652	2216
60°	4320	2320	2070
65°	3780	2120	1922
70°	3066	1908	1788
75°	2200	1745	1663
80°	1519	1558	1558
85°	1114	1351	1438

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5275 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.4	4.9
10°-20°	233.7	13.3
20°-30°	323.0	18.3
30°-40°	344.0	19.5
40°-50°	302.2	17.2
50°-60°	229.1	13.0
60°-70°	148.8	8.5
70°-80°	73.7	4.2
80°-90°	19.3	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°	643.0	36.5
0°-40°	987.0	56.1
0°-60°	1518.3	86.3
0°-90°	1760.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1760.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	929	929	929	929	929	
5°	925	923	911	914	913	88
15°	885	865	822	803	794	249
25°	795	752	690	655	638	366
35°	677	614	535	486	462	424
45°	542	466	376	309	282	418
55°	394	317	221	191	185	352
65°	232	172	130	120	118	229
75°	83	73	66	64	62	92
85°	14	16	17	17	18	17
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	929.1	929.1	929.1	929.1	929.1
2.5°	927.1	929.1	921.0	928.1	930.1
5°	925.1	923.1	911.0	914.0	913.0
7.5°	919.0	915.0	894.8	892.8	888.8
10°	911.0	900.9	872.6	865.6	859.5
12.5°	899.9	883.7	849.4	835.3	828.2
15°	884.7	864.6	822.2	803.0	793.9
17.5°	866.6	838.3	793.9	767.7	757.6
20°	845.4	812.1	760.6	730.4	718.3
22.5°	822.2	782.8	725.3	693.1	679.9
25°	794.9	751.6	690.0	654.7	637.6
27.5°	767.7	719.3	652.7	613.4	595.2
30°	740.5	685.0	612.4	570.0	550.8
32.5°	711.2	649.7	575.0	528.6	506.4
35°	676.9	614.4	534.7	486.2	462.0
37.5°	643.6	577.0	495.3	440.9	417.6
40°	612.4	541.7	456.0	396.5	372.3
42.5°	577.0	504.4	416.6	354.1	326.9
45°	541.7	466.1	376.3	308.7	281.5
47.5°	504.4	429.8	333.9	267.3	249.2
50°	471.1	392.4	296.6	236.1	224.0
52.5°	432.8	356.1	258.3	211.9	203.8
55°	394.4	316.8	220.9	190.7	184.6
57.5°	355.1	281.5	191.7	172.5	166.5
60°	313.7	245.1	168.5	153.3	150.3
62.5°	272.4	207.8	148.3	137.2	133.2
65°	232.0	172.5	130.1	120.0	118.0
67.5°	190.7	140.2	112.0	104.9	103.9
70°	152.3	114.0	94.8	90.8	88.8
72.5°	117.0	90.8	79.7	76.7	75.7
75°	82.7	72.6	65.6	63.6	62.5
77.5°	55.5	55.5	52.5	50.4	51.4
80°	38.3	40.4	39.3	39.3	39.3
82.5°	25.2	27.2	28.2	28.2	28.2
85°	14.1	16.1	17.1	17.1	18.2
87.5°	5.0	6.1	7.1	8.1	8.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)