

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: P1175352

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

Issue Date: 8/18/2025

Test Information

Test Method: LM-79-2019
Report Number: P1175352
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-S1090D930-X4F0-XX-UDD-WVL-W
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

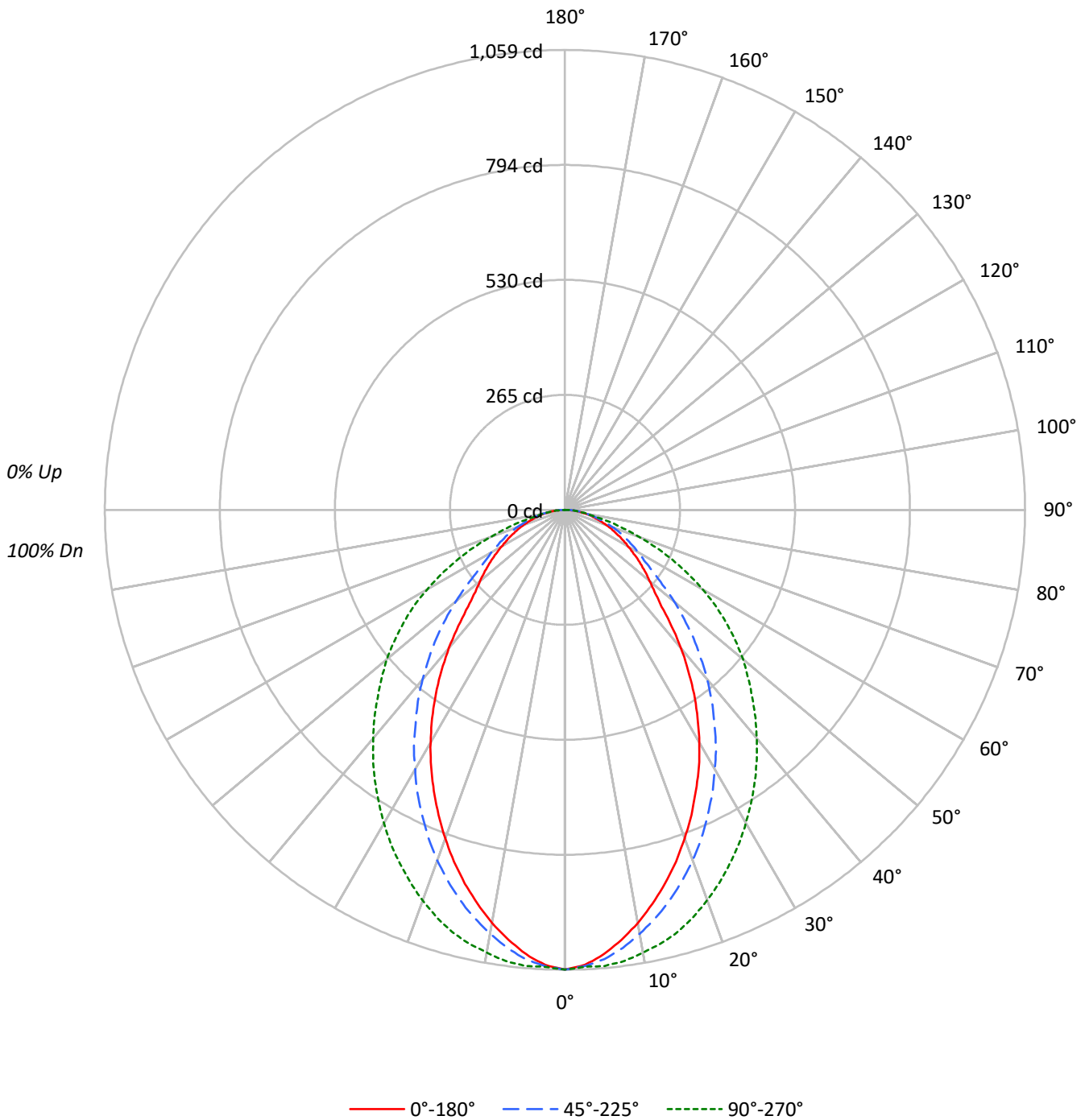
Lumens per Lamp: N/A
Luminaire Lumens: 1994.4 lumens
Efficiency: N/A
Efficacy: 57.0 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	107	104	100	97	99	97	94	96	93	91	92	90	88	86				86
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76	74				74
3	93	84	76	71	91	82	75	70	79	73	69	77	72	68	74	70	66	64				64
4	86	75	67	61	84	74	66	61	72	65	60	69	64	59	67	62	58	56				56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50				50
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44				44
7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40				40
8	65	52	44	39	63	51	44	39	50	43	38	49	43	38	48	42	38	36				36
9	61	48	40	35	59	48	40	35	46	40	35	45	39	35	44	39	35	33				33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30				30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7289	7289	7289
5°	7100	7180	7285
10°	6754	6930	7238
15°	6348	6636	7168
20°	5900	6295	7013
25°	5420	5898	6827
30°	4916	5480	6623
35°	4351	5038	6406
40°	3732	4579	6171
45°	3062	4078	5933
50°	2724	3504	5727
55°	2514	2934	5437
60°	2313	2673	5037
65°	2152	2519	4451
70°	2009	2351	3636
75°	1889	2176	2724
80°	1780	1994	1959
85°	1635	1991	1635

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5933 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.0	4.9
10°-20°	264.2	13.2
20°-30°	363.4	18.2
30°-40°	385.4	19.3
40°-50°	337.4	16.9
50°-60°	258.9	13.0
60°-70°	172.4	8.6
70°-80°	88.4	4.4
80°-90°	26.2	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°	725.6	36.4
0°-40°	1111.0	55.7
0°-60°	1707.3	85.6
0°-90°	1994.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1994.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1059	1059	1059	1059	1059	
5°	1027	1041	1039	1046	1054	96
15°	891	911	931	975	1006	250
25°	714	738	776	842	899	328
35°	518	542	599	688	762	323
45°	314	341	419	523	609	248
55°	209	214	244	363	453	188
65°	132	133	155	203	273	132
75°	71	76	82	86	102	75
85°	21	23	25	24	21	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1058.6	1058.6	1058.6	1058.6	1058.6
2.5°	1048.7	1059.5	1051.4	1052.3	1053.2
5°	1027.2	1040.6	1038.8	1046.0	1054.1
7.5°	998.4	1012.8	1017.3	1035.2	1047.8
10°	966.0	982.2	991.2	1018.2	1035.2
12.5°	929.2	948.1	962.5	997.5	1022.7
15°	890.6	911.2	931.0	975.0	1005.6
17.5°	849.2	869.9	896.0	946.3	983.1
20°	805.2	827.7	859.1	913.0	957.1
22.5°	760.3	783.6	819.6	878.9	929.2
25°	713.5	737.8	776.4	842.0	898.7
27.5°	667.7	690.2	735.1	805.2	867.2
30°	618.3	641.6	689.3	766.5	833.0
32.5°	568.8	592.2	647.0	727.9	798.0
35°	517.6	541.9	599.4	687.5	762.1
37.5°	466.4	491.6	555.4	646.1	725.2
40°	415.2	442.1	509.5	604.8	686.6
42.5°	363.1	391.8	462.8	564.4	648.8
45°	314.5	340.6	418.8	523.0	609.3
47.5°	279.5	294.8	372.0	480.8	571.5
50°	254.3	261.5	327.1	440.3	534.7
52.5°	231.9	236.3	283.1	402.6	494.3
55°	209.4	213.9	244.4	363.1	452.9
57.5°	187.8	190.5	215.7	323.5	411.6
60°	168.0	169.8	194.1	284.0	365.8
62.5°	150.1	151.0	173.4	243.5	319.9
65°	132.1	133.0	154.6	203.1	273.2
67.5°	115.9	115.9	136.6	166.3	228.3
70°	99.8	99.8	116.8	134.8	180.6
72.5°	85.4	87.2	98.9	108.7	141.1
75°	71.0	75.5	81.8	86.3	102.4
77.5°	57.5	62.9	65.6	67.4	68.3
80°	44.9	48.5	50.3	51.2	49.4
82.5°	33.3	35.9	36.8	36.8	34.1
85°	20.7	23.4	25.2	24.3	20.7
87.5°	9.9	13.5	14.4	12.6	9.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)