

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: P1061439

Luminaire Tested: S125RDR-S1090D830-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061439
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-S1090D830-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: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

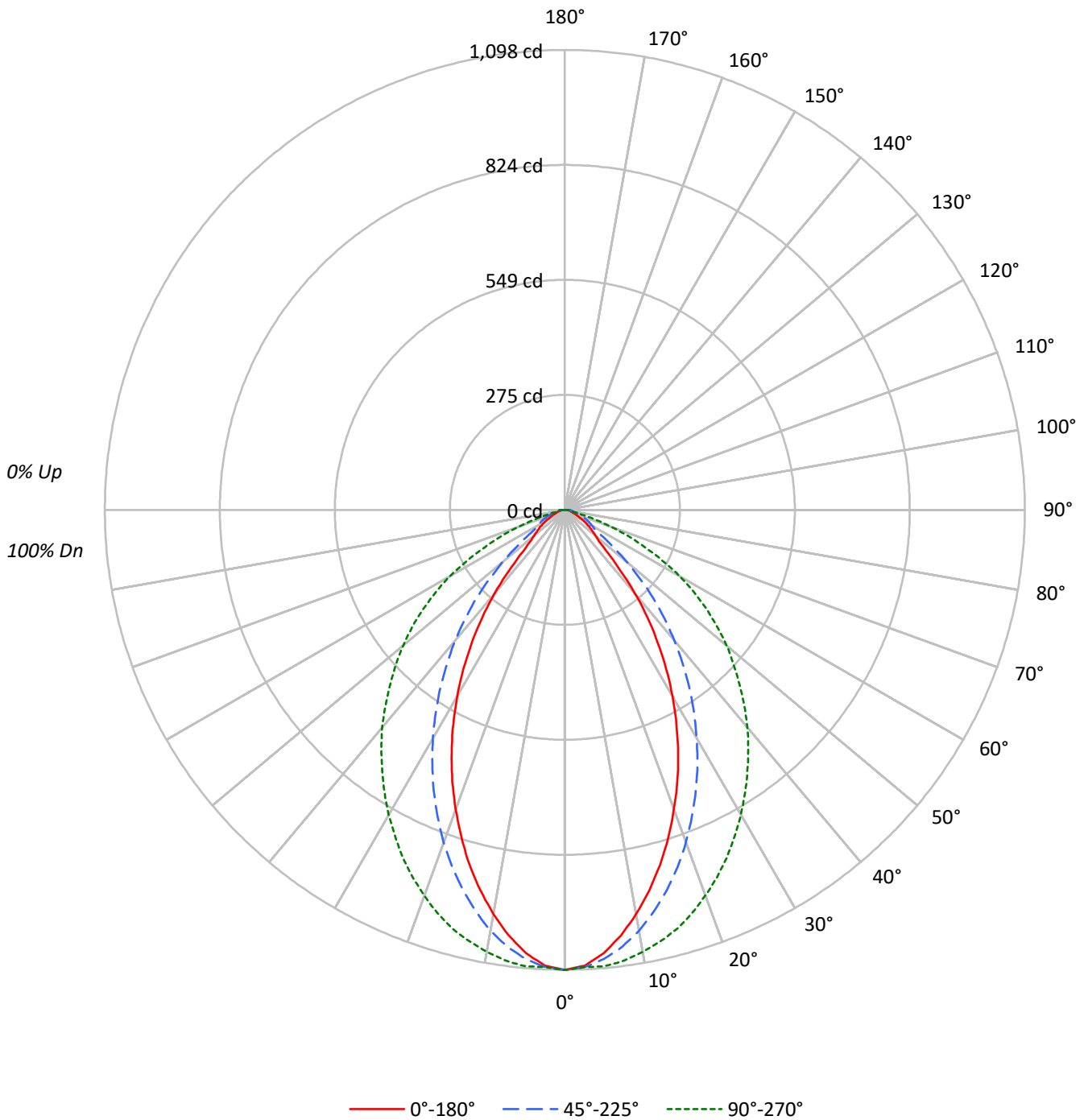
Lumens per Lamp: N/A
Luminaire Lumens: 1591.0 lumens
Efficiency: N/A
Efficacy: 45.5 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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									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	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°	7563	7563	7563
5°	7341	7438	7559
10°	6855	7133	7492
15°	6257	6698	7380
20°	5577	6192	7184
25°	4860	5623	6953
30°	4083	5002	6682
35°	3248	4346	6387
40°	2340	3651	6096
45°	1387	2899	5740
50°	1025	2063	5402
55°	869	1275	4947
60°	708	1029	4356
65°	552	951	3442
70°	469	823	2303
75°	434	713	931
80°	464	741	646
85°	553	1106	735

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5740 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.2	6.4
10°-20°	265.9	16.7
20°-30°	347.5	21.8
30°-40°	338.5	21.3
40°-50°	253.9	16.0
50°-60°	159.2	10.0
60°-70°	82.9	5.2
70°-80°	30.0	1.9
80°-90°	11.9	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°	714.7	44.9
0°-40°	1053.2	66.2
0°-60°	1466.3	92.2
0°-90°	1591.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1591.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1098	1098	1098	1098	1098	
5°	1062	1076	1076	1084	1094	99
15°	878	904	940	998	1035	245
25°	640	675	740	840	915	292
35°	386	427	517	655	760	240
45°	142	184	298	460	590	120
55°	72	76	106	278	412	65
65°	34	36	58	112	211	35
75°	16	22	27	28	35	18
85°	7	12	14	13	9	7
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1098.4	1098.4	1098.4	1098.4	1098.4
2.5°	1089.1	1099.6	1092.6	1092.6	1092.6
5°	1062.2	1076.2	1076.2	1084.4	1093.7
7.5°	1024.9	1041.2	1051.7	1071.6	1085.6
10°	980.5	1000.4	1020.2	1052.9	1071.6
12.5°	930.3	953.7	981.7	1027.2	1055.2
15°	877.8	903.5	939.7	998.0	1035.4
17.5°	820.6	851.0	894.1	964.2	1009.7
20°	761.1	791.4	845.1	924.5	980.5
22.5°	701.5	734.2	792.6	882.5	949.0
25°	639.7	674.7	740.1	840.4	915.2
27.5°	576.6	612.8	685.2	797.3	877.8
30°	513.6	551.0	629.2	750.6	840.4
32.5°	450.6	490.3	573.1	702.7	800.8
35°	386.4	427.2	517.1	654.8	759.9
37.5°	324.5	365.4	461.1	605.8	719.0
40°	260.3	304.7	406.2	556.8	678.2
42.5°	197.3	242.8	351.4	507.8	633.8
45°	142.4	184.4	297.7	459.9	589.5
47.5°	109.7	133.1	242.8	410.9	546.3
50°	95.7	102.7	192.6	365.4	504.3
52.5°	82.9	87.5	144.7	323.3	458.7
55°	72.4	75.9	106.2	277.8	412.1
57.5°	60.7	65.4	84.0	233.5	364.2
60°	51.4	53.7	74.7	192.6	316.3
62.5°	42.0	44.4	66.5	151.7	262.6
65°	33.9	36.2	58.4	112.1	211.3
67.5°	28.0	29.2	49.0	79.4	162.3
70°	23.3	24.5	40.9	54.9	114.4
72.5°	19.8	23.3	32.7	39.7	72.4
75°	16.3	22.2	26.8	28.0	35.0
77.5°	14.0	21.0	22.2	22.2	19.8
80°	11.7	17.5	18.7	17.5	16.3
82.5°	9.3	14.0	15.2	15.2	12.8
85°	7.0	11.7	14.0	12.8	9.3
87.5°	4.7	10.5	11.7	10.5	7.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)