

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: P1061524

Luminaire Tested: S125RDR-S1270D835-X4F0-XX-UDD-BVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061524
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-48)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S1270D835-X4F0-XX-UDD-BVL-B
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

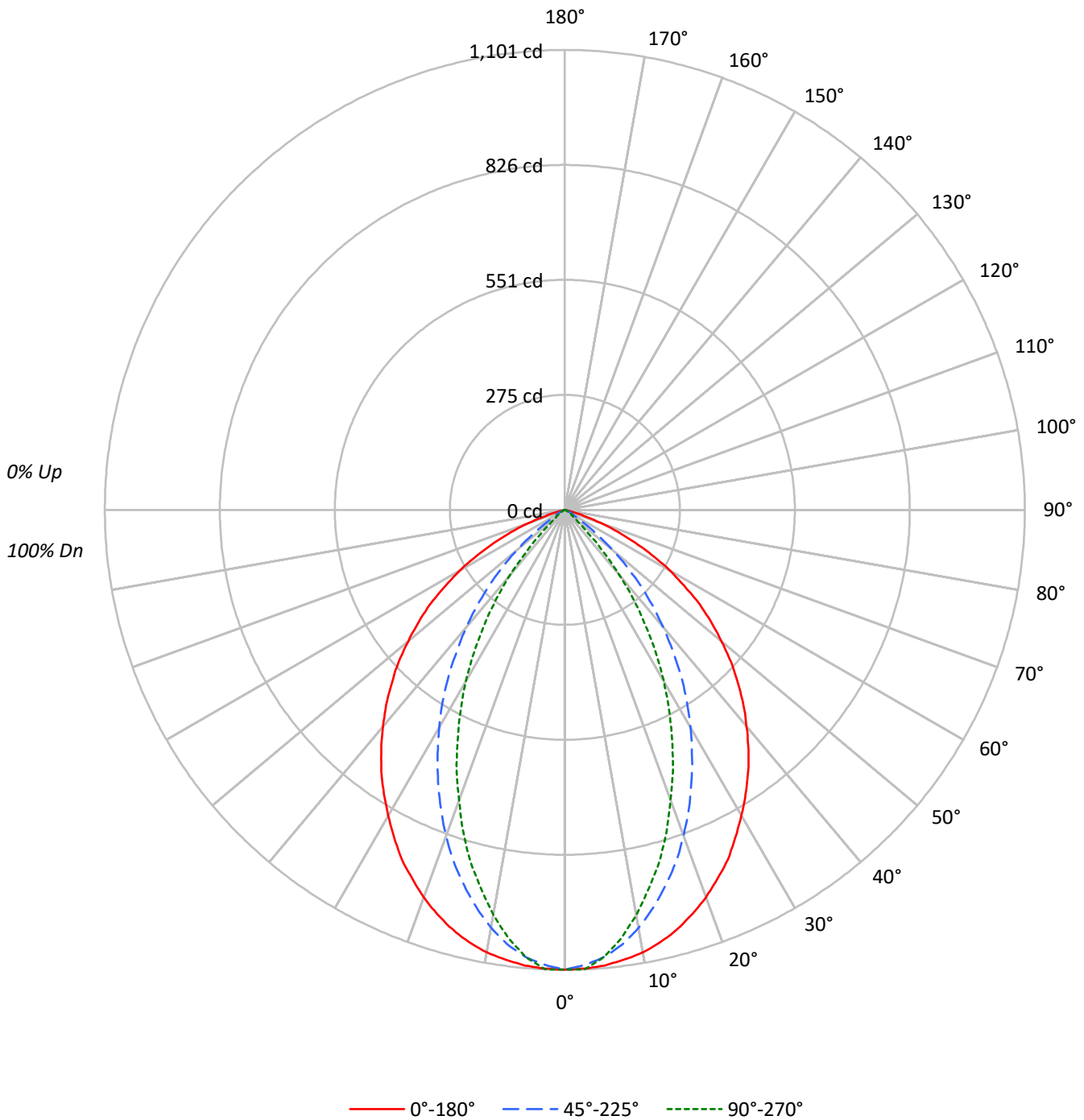
Lumens per Lamp: N/A
Luminaire Lumens: 1422.0 lumens
Efficiency: N/A
Efficacy: 34.0 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 0.81 / 0.97
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.8
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

TEST NUMBER: P1061524

CATALOG NUMBER: S125RDR-S1270D835-X4F0-XX-UDD-BVL-B

Luminous Intensity Polar Plot





TEST NUMBER: P1061524

CATALOG NUMBER: S125RDR-S1270D835-X4F0-XX-UDD-BVL-B

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	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91				91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82				82
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73				73
4	92	83	76	71	90	82	75	70	79	74	70	77	72	69	75	71	68	66				66
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60				60
6	81	70	63	58	79	69	62	57	67	61	57	66	61	57	65	60	56	54				54
7	76	65	58	53	74	64	57	52	63	56	52	61	56	52	60	55	51	50				50
8	71	60	53	48	70	59	53	48	58	52	48	57	52	48	56	51	47	46				46
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42				42
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39				39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7579	7579	7579
5°	7567	7427	7427
10°	7523	7107	6883
15°	7411	6635	6221
20°	7235	6086	5415
25°	7016	5449	4611
30°	6719	4780	3764
35°	6433	4077	2819
40°	6082	3289	1827
45°	5698	2489	792
50°	5242	1586	296
55°	4724	697	209
60°	3999	300	140
65°	3029	189	72
70°	1842	89	30
75°	386	40	40
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5698 cd/sqm



TEST NUMBER: P1061524

CATALOG NUMBER: S125RDR-S1270D835-X4F0-XX-UDD-BVL-B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.5	7.1
10°-20°	264.5	18.6
20°-30°	339.6	23.9
30°-40°	319.7	22.5
40°-50°	223.5	15.7
50°-60°	119.4	8.4
60°-70°	47.6	3.3
70°-80°	6.2	0.4
80°-90°	0.0	0.0
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°	705.6	49.6
0°-40°	1025.3	72.1
0°-60°	1368.2	96.2
0°-90°	1422.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1422.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1101	1101	1101	1101	1101	
5°	1095	1092	1075	1078	1075	104
15°	1040	1006	931	887	873	293
25°	924	842	717	639	607	424
35°	765	643	485	375	335	478
45°	585	438	256	123	81	451
55°	394	241	58	20	17	349
65°	186	74	12	6	4	185
75°	14	4	2	2	2	28
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P1061524

CATALOG NUMBER: S125RDR-S1270D835-X4F0-XX-UDD-BVL-B

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1100.7	1100.7	1100.7	1100.7	1100.7
2.5°	1099.2	1100.7	1090.5	1099.2	1100.7
5°	1094.9	1092.0	1074.6	1077.5	1074.6
7.5°	1086.2	1078.9	1049.9	1039.7	1033.9
10°	1076.0	1060.0	1016.5	994.7	984.5
12.5°	1060.0	1036.8	975.8	942.4	927.9
15°	1039.7	1006.3	930.8	887.2	872.7
17.5°	1015.0	971.5	884.3	830.6	808.8
20°	987.4	929.4	830.6	766.7	739.1
22.5°	955.5	888.7	775.4	704.3	676.7
25°	923.5	842.2	717.3	638.9	607.0
27.5°	884.3	794.3	659.3	575.0	540.2
30°	845.1	746.4	601.2	509.7	473.4
32.5°	805.9	695.6	543.1	441.4	405.1
35°	765.3	643.3	485.0	374.6	335.4
37.5°	721.7	591.0	422.6	310.8	270.1
40°	676.7	540.2	365.9	248.3	203.3
42.5°	633.1	489.4	309.3	187.3	138.0
45°	585.2	438.5	255.6	123.4	81.3
47.5°	540.2	389.2	200.4	71.2	42.1
50°	489.4	338.3	148.1	37.8	27.6
52.5°	441.4	289.0	98.7	24.7	21.8
55°	393.5	241.1	58.1	20.3	17.4
57.5°	338.3	194.6	31.9	16.0	13.1
60°	290.4	152.5	21.8	11.6	10.2
62.5°	235.2	111.8	16.0	8.7	7.3
65°	185.9	74.1	11.6	5.8	4.4
67.5°	138.0	43.6	7.3	2.9	2.9
70°	91.5	23.2	4.4	1.5	1.5
72.5°	47.9	10.2	2.9	1.5	1.5
75°	14.5	4.4	1.5	1.5	1.5
77.5°	0.0	1.5	0.0	0.0	1.5
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)