

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1061515

Luminaire Tested: S125RDRP-S1270D830-X4F0-XX-UDD-BVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061515
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: S125RDRP-S1270D830-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: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

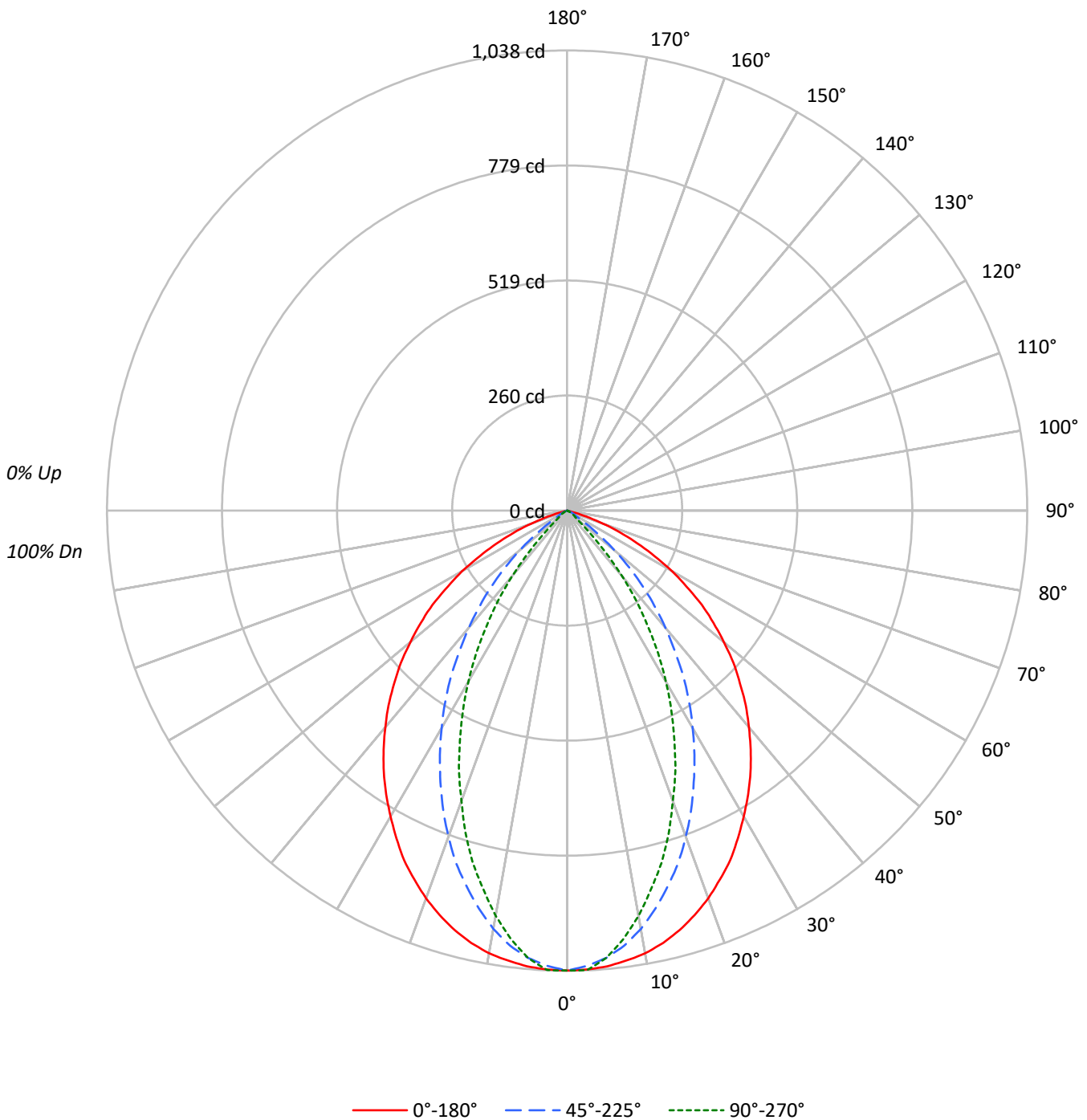
Lumens per Lamp: N/A
Luminaire Lumens: 1340.3 lumens
Efficiency: N/A
Efficacy: 32.1 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 0.81 / 0.97
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.8
Input Voltage (V): 120
Input Current (A_{in}): 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: P1061515

CATALOG NUMBER: S125RDRP-S1270D830-X4F0-XX-UDD-BVL-B

Luminous Intensity Polar Plot





TEST NUMBER: P1061515

CATALOG NUMBER: S125RDRP-S1270D830-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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73
4	92	83	76	71	90	82	75	70	79	74	70	77	72	69	75	71	68	66
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60
6	81	70	63	58	79	69	62	57	67	61	57	66	61	57	65	60	56	54
7	76	65	58	53	74	64	57	52	63	56	52	61	56	52	60	55	51	50
8	71	60	53	48	70	59	53	48	58	52	48	57	52	48	56	51	47	46
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7143	7143	7143
5°	7133	7000	7000
10°	7091	6699	6488
15°	6986	6254	5864
20°	6819	5736	5105
25°	6613	5136	4346
30°	6333	4505	3547
35°	6063	3842	2658
40°	5733	3100	1722
45°	5371	2346	746
50°	4940	1495	278
55°	4452	657	197
60°	3769	282	132
65°	2854	178	67
70°	1735	83	28
75°	364	37	37
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5371 cd/sqm



TEST NUMBER: P1061515

CATALOG NUMBER: S125RDRP-S1270D830-X4F0-XX-UDD-BVL-B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.6	7.1
10°-20°	249.3	18.6
20°-30°	320.1	23.9
30°-40°	301.3	22.5
40°-50°	210.7	15.7
50°-60°	112.5	8.4
60°-70°	44.9	3.3
70°-80°	5.8	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°	665.0	49.6
0°-40°	966.4	72.1
0°-60°	1289.6	96.2
0°-90°	1340.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1340.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1038	1038	1038	1038	1038	
5°	1032	1029	1013	1016	1013	98
15°	980	948	877	836	823	276
25°	870	794	676	602	572	400
35°	721	606	457	353	316	450
45°	552	413	241	116	77	425
55°	371	227	55	19	16	329
65°	175	70	11	6	4	174
75°	14	4	1	1	1	27
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



TEST NUMBER: P1061515

CATALOG NUMBER: S125RDRP-S1270D830-X4F0-XX-UDD-BVL-B

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1037.5	1037.5	1037.5	1037.5	1037.5
2.5°	1036.1	1037.5	1027.9	1036.1	1037.5
5°	1032.0	1029.2	1012.8	1015.6	1012.8
7.5°	1023.8	1016.9	989.6	980.0	974.5
10°	1014.2	999.1	958.1	937.5	928.0
12.5°	999.1	977.2	919.8	888.3	874.6
15°	980.0	948.5	877.3	836.3	822.6
17.5°	956.7	915.6	833.5	782.9	762.4
20°	930.7	876.0	782.9	722.7	696.7
22.5°	900.6	837.6	730.9	663.8	637.8
25°	870.5	793.8	676.1	602.2	572.1
27.5°	833.5	748.7	621.4	542.0	509.1
30°	796.6	703.5	566.6	480.4	446.2
32.5°	759.6	655.6	511.9	416.1	381.9
35°	721.3	606.3	457.1	353.1	316.2
37.5°	680.2	557.1	398.3	292.9	254.6
40°	637.8	509.1	344.9	234.0	191.6
42.5°	596.7	461.2	291.5	176.6	130.0
45°	551.6	413.3	240.9	116.3	76.6
47.5°	509.1	366.8	188.9	67.1	39.7
50°	461.2	318.9	139.6	35.6	26.0
52.5°	416.1	272.4	93.1	23.3	20.5
55°	370.9	227.2	54.7	19.2	16.4
57.5°	318.9	183.4	30.1	15.1	12.3
60°	273.7	143.7	20.5	10.9	9.6
62.5°	221.7	105.4	15.1	8.2	6.8
65°	175.2	69.8	10.9	5.5	4.1
67.5°	130.0	41.1	6.8	2.7	2.7
70°	86.2	21.9	4.1	1.4	1.4
72.5°	45.2	9.6	2.7	1.4	1.4
75°	13.7	4.1	1.4	1.4	1.4
77.5°	0.0	1.4	0.0	0.0	1.4
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



TEST NUMBER: P1061515
 CATALOG NUMBER: S125RDRP-S1270D830-X4F0-XX-UDD-BVL-B

CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	15.77	17.04	16.14	17.35	17.67	0.00	0.00	0.00	0.00	0.00
	3H	16.36	17.47	16.74	17.80	18.17	0.00	0.00	0.00	0.00	0.00
	4H	16.32	17.36	16.73	17.71	18.09	0.00	0.00	0.00	0.00	0.00
	6H	16.24	17.18	16.65	17.55	17.95	0.00	0.00	0.00	0.00	0.00
	8H	16.19	17.08	16.62	17.48	17.88	0.00	0.00	0.00	0.00	0.00
	12H	16.15	17.00	16.58	17.38	17.81	0.00	0.00	0.00	0.00	0.00
4H	2H	15.55	16.58	15.95	16.93	17.32	0.00	0.00	0.00	0.00	0.00
	3H	16.14	16.98	16.55	17.38	17.78	0.00	0.00	0.00	0.00	0.00
	4H	16.09	16.83	16.53	17.25	17.70	0.00	0.00	0.00	0.00	0.00
	6H	16.00	16.64	16.47	17.09	17.56	0.00	0.00	0.00	0.00	0.00
	8H	15.94	16.54	16.41	16.98	17.46	0.00	0.00	0.00	0.00	0.00
	12H	15.89	16.41	16.38	16.90	17.37	0.00	0.00	0.00	0.00	0.00
8H	4H	15.94	16.54	16.41	16.98	17.46	0.00	0.00	0.00	0.00	0.00
	6H	15.84	16.32	16.34	16.81	17.30	0.00	0.00	0.00	0.00	0.00
	8H	15.77	16.20	16.29	16.72	17.21	0.00	0.00	0.00	0.00	0.00
	12H	15.72	16.10	16.24	16.60	17.17	0.00	0.00	0.00	0.00	0.00
12H	4H	15.89	16.41	16.38	16.90	17.37	0.00	0.00	0.00	0.00	0.00
	6H	15.77	16.20	16.29	16.72	17.21	0.00	0.00	0.00	0.00	0.00
	8H	15.72	16.10	16.24	16.60	17.17	0.00	0.00	0.00	0.00	0.00