

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: P1061923

Luminaire Tested: S125RDRP-H1270D830-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061923
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-47)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-H1270D830-X4F0-XX-UDD-SVL-B
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE LOUVER WITH DIFFUSER
HIGH PERFORMANCE LIGHT ENGINE
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

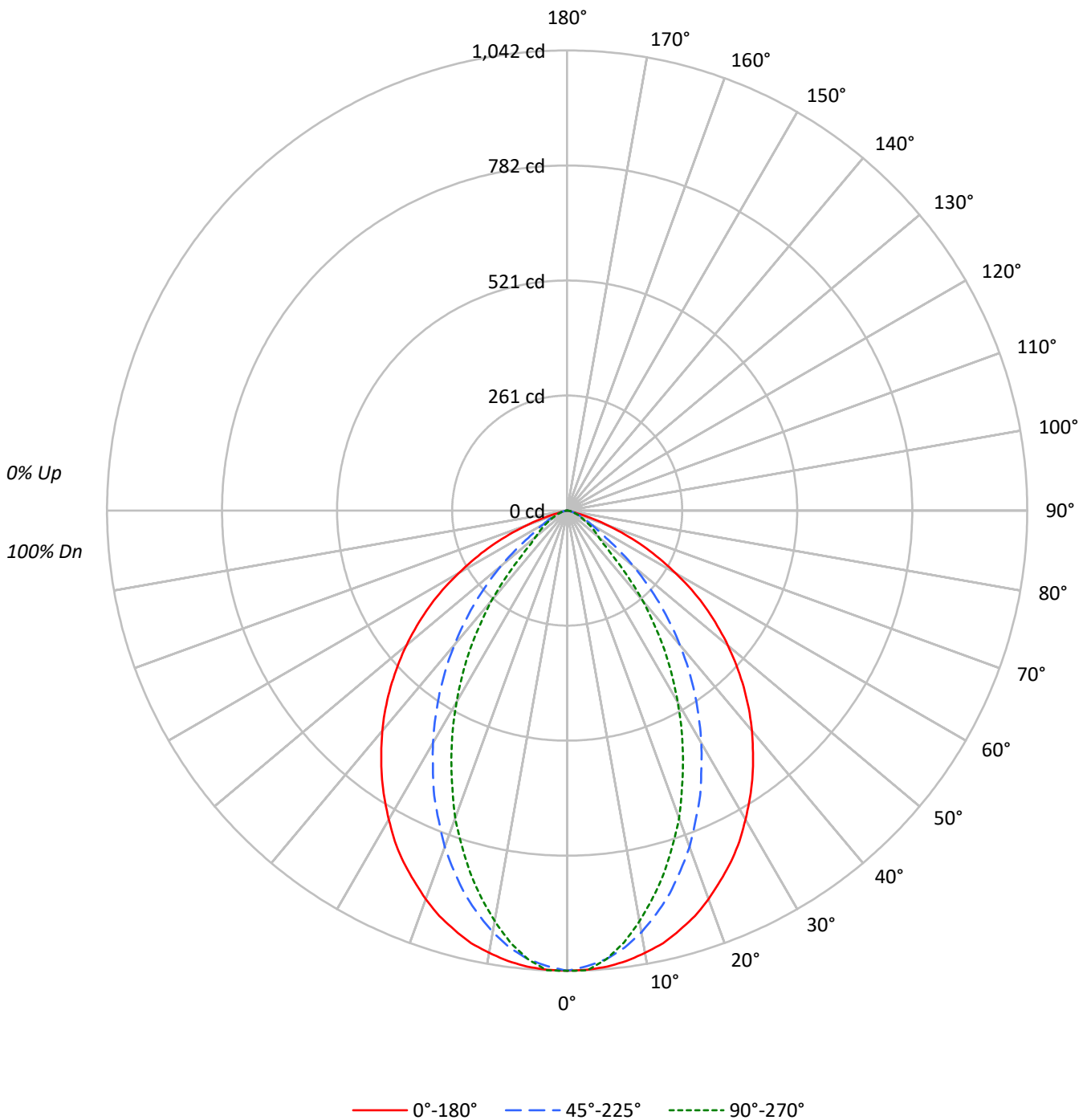
Lumens per Lamp: N/A
Luminaire Lumens: 1507.0 lumens
Efficiency: N/A
Efficacy: 41.3 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 0.85 / 1.01
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 36.5
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

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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	102	109	106	103	101	102	100	97	98	96	95	95	93	92	90
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80
3	97	89	82	77	95	87	81	77	84	79	75	82	78	74	79	76	73	71
4	90	81	74	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47
8	69	58	50	45	68	57	50	45	56	50	45	55	49	45	54	48	45	43
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39
10	62	50	43	38	61	50	43	38	49	43	38	48	42	38	47	42	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7174	7174	7174
5°	7165	7046	7046
10°	7110	6776	6600
15°	7013	6399	6050
20°	6859	5937	5433
25°	6669	5411	4718
30°	6422	4831	3979
35°	6154	4229	3228
40°	5855	3570	2392
45°	5505	2862	1444
50°	5091	2099	993
55°	4594	1287	827
60°	3901	876	657
65°	3084	668	518
70°	1947	479	427
75°	633	351	351
80°	210	262	313
85°	103	205	205

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5505 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.4	6.4
10°-20°	254.5	16.9
20°-30°	334.8	22.2
30°-40°	329.0	21.8
40°-50°	248.9	16.5
50°-60°	150.9	10.0
60°-70°	71.2	4.7
70°-80°	18.6	1.2
80°-90°	2.8	0.2
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°	685.7	45.5
0°-40°	1014.6	67.3
0°-60°	1414.4	93.9
0°-90°	1507.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1507.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1042	1042	1042	1042	1042	
5°	1037	1034	1020	1021	1020	98
15°	984	957	898	863	849	277
25°	878	812	712	646	621	403
35°	732	634	503	414	384	457
45°	565	445	294	187	148	435
55°	383	262	107	73	69	341
65°	189	97	41	34	32	187
75°	24	16	13	13	13	37
85°	1	1	3	3	3	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1042.0	1042.0	1042.0	1042.0	1042.0
2.5°	1040.7	1040.7	1032.8	1042.0	1042.0
5°	1036.7	1034.1	1019.5	1020.8	1019.5
7.5°	1028.8	1023.5	998.3	991.7	986.4
10°	1016.9	1006.3	969.2	953.3	944.0
12.5°	1003.6	985.1	934.8	912.3	897.7
15°	983.8	957.3	897.7	863.3	848.7
17.5°	962.6	924.2	854.0	813.0	794.4
20°	936.1	891.1	810.3	760.0	741.5
22.5°	907.0	854.0	760.0	704.4	679.2
25°	877.8	811.6	712.3	646.1	621.0
27.5°	844.7	769.3	658.1	589.2	561.4
30°	807.7	726.9	607.7	536.2	500.5
32.5°	770.6	683.2	554.8	476.7	440.9
35°	732.2	634.2	503.1	414.4	384.0
37.5°	691.2	587.9	450.2	357.5	321.7
40°	651.4	541.5	397.2	299.2	266.1
42.5°	609.1	495.2	344.3	242.3	205.2
45°	565.4	444.9	293.9	186.7	148.3
47.5°	520.4	399.9	243.6	137.7	111.2
50°	475.3	352.2	196.0	102.0	92.7
52.5°	429.0	305.9	148.3	84.7	80.8
55°	382.7	262.2	107.2	72.8	68.9
57.5°	335.0	214.5	80.8	62.2	58.3
60°	283.3	172.1	63.6	51.6	47.7
62.5°	235.7	135.1	51.6	42.4	39.7
65°	189.3	96.7	41.0	34.4	31.8
67.5°	141.7	64.9	31.8	26.5	26.5
70°	96.7	42.4	23.8	21.2	21.2
72.5°	58.3	25.2	17.2	17.2	17.2
75°	23.8	15.9	13.2	13.2	13.2
77.5°	7.9	9.3	9.3	10.6	10.6
80°	5.3	5.3	6.6	7.9	7.9
82.5°	2.6	4.0	4.0	5.3	5.3
85°	1.3	1.3	2.6	2.6	2.6
87.5°	0.0	0.0	0.0	1.3	1.3
90°	0.0	0.0	0.0	0.0	0.0

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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	16.18	17.51	16.54	17.82	18.13	6.83	8.16	7.19	8.47	8.79
	3H	16.88	18.06	17.26	18.39	18.75	7.61	8.79	7.99	9.12	9.48
	4H	16.90	17.99	17.30	18.35	18.73	7.86	8.96	8.26	9.31	9.69
	6H	16.83	17.83	17.24	18.20	18.60	8.04	9.04	8.45	9.41	9.81
	8H	16.79	17.74	17.22	18.13	18.54	8.08	9.03	8.51	9.42	9.83
	12H	16.75	17.66	17.18	18.04	18.47	8.09	9.00	8.52	9.38	9.81
4H	2H	16.01	17.10	16.41	17.45	17.84	7.32	8.41	7.72	8.76	9.14
	3H	16.75	17.64	17.17	18.05	18.45	8.22	9.12	8.64	9.52	9.92
	4H	16.77	17.57	17.21	17.99	18.43	8.54	9.33	8.97	9.75	10.19
	6H	16.71	17.39	17.17	17.84	18.31	8.80	9.48	9.26	9.93	10.39
	8H	16.66	17.30	17.13	17.74	18.21	8.86	9.50	9.33	9.95	10.42
	12H	16.61	17.18	17.10	17.66	18.13	8.88	9.45	9.37	9.93	10.40
8H	4H	16.65	17.29	17.12	17.74	18.21	8.65	9.29	9.12	9.73	10.20
	6H	16.58	17.10	17.08	17.59	18.08	8.97	9.48	9.47	9.98	10.46
	8H	16.52	16.99	17.05	17.51	18.00	9.07	9.54	9.59	10.05	10.54
	12H	16.48	16.90	17.00	17.39	17.96	9.13	9.54	9.65	10.04	10.61
12H	4H	16.61	17.17	17.10	17.66	18.13	8.62	9.18	9.11	9.67	10.14
	6H	16.52	16.99	17.04	17.50	17.99	8.94	9.40	9.46	9.92	10.41
	8H	16.49	16.90	17.00	17.39	17.96	9.08	9.49	9.59	9.98	10.55