

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: P1061992

Luminaire Tested: S125RDRP-H1270D950-X4F0-XX-UDD-BVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061992
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-H1270D950-X4F0-XX-UDD-BVL-B
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE
LOUVER WITH DIFFUSER
HIGH PERFORMANCE LIGHT ENGINE
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

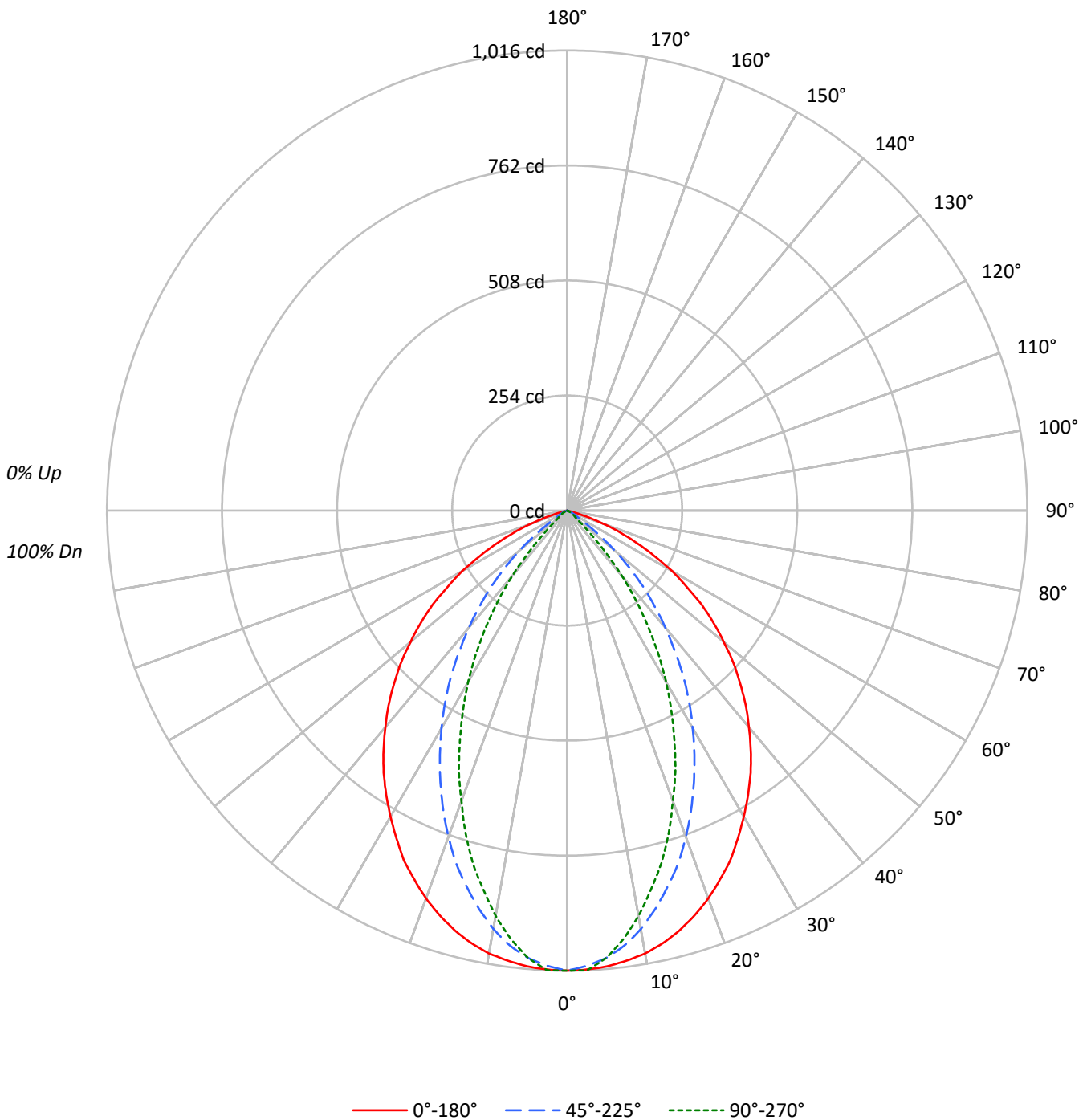
Lumens per Lamp: N/A
Luminaire Lumens: 1312.2 lumens
Efficiency: N/A
Efficacy: 36.0 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 0.81 / 0.97
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	6994	6994	6994
5°	6983	6853	6853
10°	6943	6558	6352
15°	6839	6123	5741
20°	6676	5616	4998
25°	6475	5029	4255
30°	6201	4411	3474
35°	5936	3762	2602
40°	5613	3035	1686
45°	5258	2297	730
50°	4837	1464	273
55°	4360	643	193
60°	3690	277	129
65°	2794	174	65
70°	1699	81	26
75°	356	35	35
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5258 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.6	7.1
10°-20°	244.1	18.6
20°-30°	313.4	23.9
30°-40°	295.0	22.5
40°-50°	206.3	15.7
50°-60°	110.2	8.4
60°-70°	43.9	3.3
70°-80°	5.7	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°	651.1	49.6
0°-40°	946.2	72.1
0°-60°	1262.6	96.2
0°-90°	1312.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1312.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1016	1016	1016	1016	1016	
5°	1010	1008	992	994	992	96
15°	960	929	859	819	805	270
25°	852	777	662	590	560	391
35°	706	594	448	346	310	441
45°	540	405	236	114	75	417
55°	363	222	54	19	16	322
65°	172	68	11	5	4	171
75°	13	4	1	1	1	26
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1015.8	1015.8	1015.8	1015.8	1015.8
2.5°	1014.4	1015.8	1006.4	1014.4	1015.8
5°	1010.4	1007.7	991.6	994.3	991.6
7.5°	1002.4	995.7	968.9	959.5	954.1
10°	993.0	978.2	938.0	917.9	908.6
12.5°	978.2	956.8	900.5	869.7	856.3
15°	959.5	928.7	859.0	818.8	805.4
17.5°	936.7	896.5	816.1	766.5	746.4
20°	911.2	857.6	766.5	707.6	682.1
22.5°	881.8	820.1	715.6	649.9	624.5
25°	852.3	777.2	662.0	589.6	560.1
27.5°	816.1	733.0	608.4	530.7	498.5
30°	779.9	688.8	554.8	470.4	436.9
32.5°	743.7	641.9	501.2	407.4	373.9
35°	706.2	593.6	447.6	345.7	309.6
37.5°	666.0	545.4	390.0	286.8	249.3
40°	624.5	498.5	337.7	229.1	187.6
42.5°	584.3	451.6	285.4	172.9	127.3
45°	540.0	404.7	235.9	113.9	75.0
47.5°	498.5	359.1	184.9	65.7	38.9
50°	451.6	312.2	136.7	34.8	25.5
52.5°	407.4	266.7	91.1	22.8	20.1
55°	363.2	222.4	53.6	18.8	16.1
57.5°	312.2	179.6	29.5	14.7	12.1
60°	268.0	140.7	20.1	10.7	9.4
62.5°	217.1	103.2	14.7	8.0	6.7
65°	171.5	68.3	10.7	5.4	4.0
67.5°	127.3	40.2	6.7	2.7	2.7
70°	84.4	21.4	4.0	1.3	1.3
72.5°	44.2	9.4	2.7	1.3	1.3
75°	13.4	4.0	1.3	1.3	1.3
77.5°	0.0	1.3	0.0	0.0	1.3
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



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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	15.70	16.97	16.07	17.28	17.59	0.00	0.00	0.00	0.00	0.00
	3H	16.29	17.40	16.67	17.73	18.09	0.00	0.00	0.00	0.00	0.00
	4H	16.25	17.28	16.65	17.63	18.02	0.00	0.00	0.00	0.00	0.00
	6H	16.16	17.11	16.58	17.48	17.88	0.00	0.00	0.00	0.00	0.00
	8H	16.12	17.01	16.55	17.40	17.81	0.00	0.00	0.00	0.00	0.00
	12H	16.07	16.92	16.51	17.31	17.74	0.00	0.00	0.00	0.00	0.00
4H	2H	15.48	16.51	15.88	16.86	17.24	0.00	0.00	0.00	0.00	0.00
	3H	16.07	16.90	16.48	17.31	17.71	0.00	0.00	0.00	0.00	0.00
	4H	16.02	16.76	16.45	17.18	17.62	0.00	0.00	0.00	0.00	0.00
	6H	15.93	16.57	16.39	17.01	17.48	0.00	0.00	0.00	0.00	0.00
	8H	15.87	16.46	16.34	16.91	17.38	0.00	0.00	0.00	0.00	0.00
	12H	15.82	16.34	16.31	16.82	17.30	0.00	0.00	0.00	0.00	0.00
8H	4H	15.87	16.46	16.34	16.91	17.38	0.00	0.00	0.00	0.00	0.00
	6H	15.76	16.24	16.27	16.74	17.22	0.00	0.00	0.00	0.00	0.00
	8H	15.70	16.13	16.22	16.64	17.14	0.00	0.00	0.00	0.00	0.00
	12H	15.65	16.03	16.16	16.52	17.10	0.00	0.00	0.00	0.00	0.00
12H	4H	15.82	16.34	16.31	16.82	17.30	0.00	0.00	0.00	0.00	0.00
	6H	15.70	16.13	16.22	16.64	17.14	0.00	0.00	0.00	0.00	0.00
	8H	15.65	16.03	16.16	16.52	17.10	0.00	0.00	0.00	0.00	0.00