

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



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: P1061965

Luminaire Tested: S125RDR-H1270D930-X4F0-XX-UDD-BVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061965
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-H1270D930-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: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

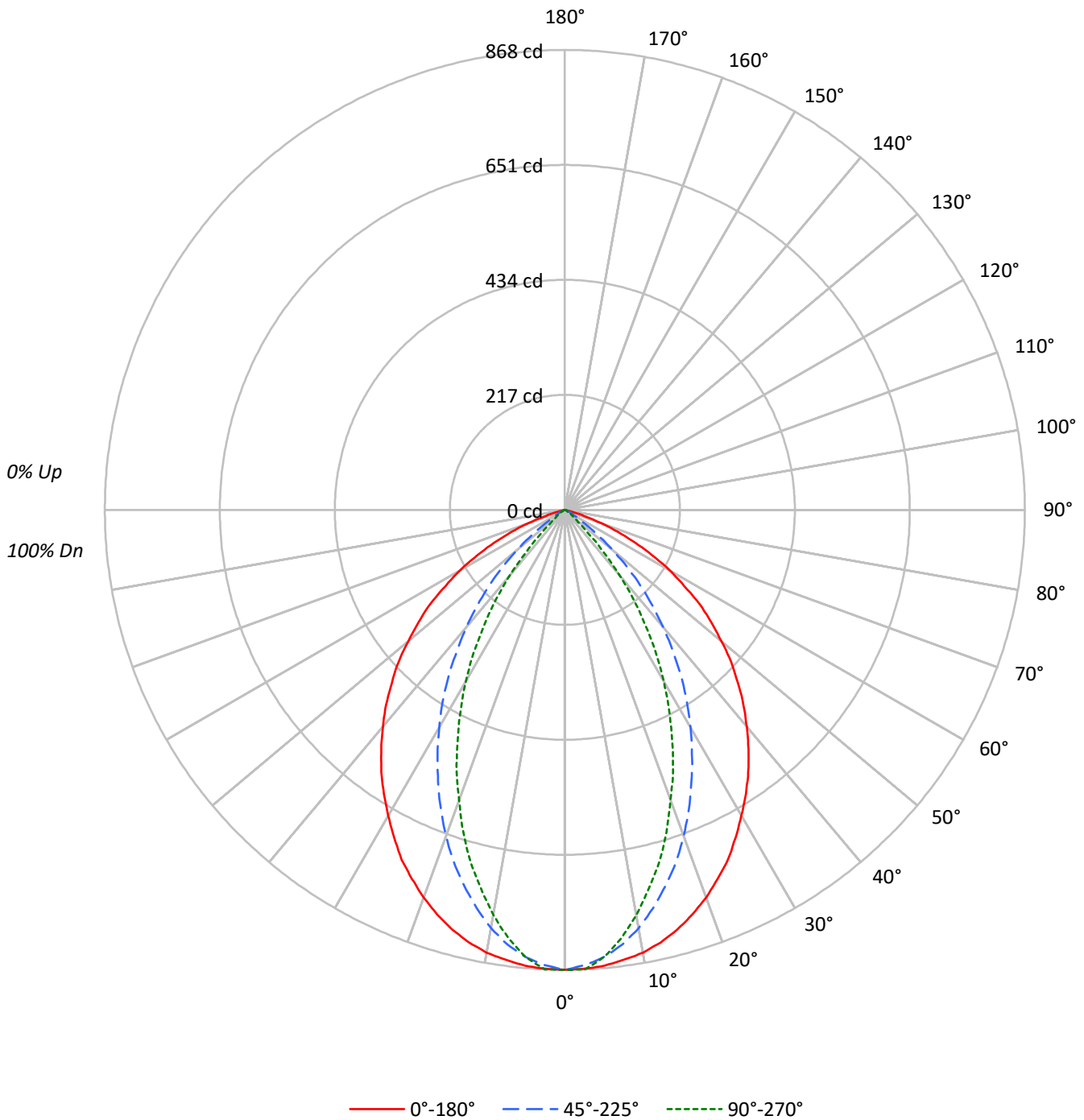
Lumens per Lamp: N/A
Luminaire Lumens: 1121.4 lumens
Efficiency: N/A
Efficacy: 30.7 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 0.81 / 0.97
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 36.5
Input Voltage (V): 120
Input Current (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			
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
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°	5977	5977	5977
5°	5968	5858	5858
10°	5933	5605	5429
15°	5845	5233	4906
20°	5706	4800	4271
25°	5534	4298	3637
30°	5299	3769	2968
35°	5073	3215	2223
40°	4797	2594	1441
45°	4494	1963	624
50°	4134	1251	234
55°	3726	550	164
60°	3153	237	110
65°	2388	150	55
70°	1451	68	22
75°	306	29	29
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4494 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.0	7.1
10°-20°	208.6	18.6
20°-30°	267.8	23.9
30°-40°	252.1	22.5
40°-50°	176.3	15.7
50°-60°	94.2	8.4
60°-70°	37.6	3.3
70°-80°	4.8	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°	556.5	49.6
0°-40°	808.6	72.1
0°-60°	1079.0	96.2
0°-90°	1121.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1121.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	868	868	868	868	868	
5°	864	861	848	850	848	82
15°	820	794	734	700	688	231
25°	728	664	566	504	479	334
35°	604	507	382	296	264	377
45°	462	346	202	97	64	356
55°	310	190	46	16	14	275
65°	147	58	9	5	3	146
75°	12	3	1	1	1	22
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	868.1	868.1	868.1	868.1	868.1
2.5°	866.9	868.1	860.1	866.9	868.1
5°	863.5	861.2	847.5	849.8	847.5
7.5°	856.6	850.9	828.0	820.0	815.4
10°	848.6	836.0	801.7	784.5	776.5
12.5°	836.0	817.7	769.6	743.3	731.8
15°	820.0	793.6	734.1	699.7	688.3
17.5°	800.5	766.2	697.4	655.1	637.9
20°	778.8	732.9	655.1	604.7	582.9
22.5°	753.6	700.9	611.6	555.4	533.7
25°	728.4	664.2	565.7	503.9	478.7
27.5°	697.4	626.4	519.9	453.5	426.0
30°	666.5	588.6	474.1	402.0	373.3
32.5°	635.6	548.6	428.3	348.1	319.5
35°	603.5	507.3	382.5	295.5	264.5
37.5°	569.2	466.1	333.3	245.1	213.0
40°	533.7	426.0	288.6	195.8	160.3
42.5°	499.3	385.9	243.9	147.7	108.8
45°	461.5	345.9	201.6	97.3	64.1
47.5°	426.0	306.9	158.0	56.1	33.2
50°	385.9	266.8	116.8	29.8	21.8
52.5°	348.1	227.9	77.9	19.5	17.2
55°	310.4	190.1	45.8	16.0	13.7
57.5°	266.8	153.5	25.2	12.6	10.3
60°	229.0	120.2	17.2	9.2	8.0
62.5°	185.5	88.2	12.6	6.9	5.7
65°	146.6	58.4	9.2	4.6	3.4
67.5°	108.8	34.4	5.7	2.3	2.3
70°	72.1	18.3	3.4	1.1	1.1
72.5°	37.8	8.0	2.3	1.1	1.1
75°	11.5	3.4	1.1	1.1	1.1
77.5°	0.0	1.1	0.0	0.0	1.1
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	15.16	16.42	15.52	16.73	17.05	0.00	0.00	0.00	0.00	0.00
	3H	15.74	16.85	16.12	17.18	17.55	0.00	0.00	0.00	0.00	0.00
	4H	15.70	16.74	16.11	17.09	17.47	0.00	0.00	0.00	0.00	0.00
	6H	15.62	16.56	16.03	16.94	17.33	0.00	0.00	0.00	0.00	0.00
	8H	15.57	16.47	16.00	16.86	17.26	0.00	0.00	0.00	0.00	0.00
	12H	15.53	16.38	15.96	16.76	17.19	0.00	0.00	0.00	0.00	0.00
4H	2H	14.93	15.96	15.33	16.31	16.70	0.00	0.00	0.00	0.00	0.00
	3H	15.52	16.36	15.93	16.76	17.17	0.00	0.00	0.00	0.00	0.00
	4H	15.47	16.21	15.91	16.63	17.08	0.00	0.00	0.00	0.00	0.00
	6H	15.38	16.02	15.85	16.47	16.94	0.00	0.00	0.00	0.00	0.00
	8H	15.32	15.92	15.80	16.37	16.84	0.00	0.00	0.00	0.00	0.00
	12H	15.27	15.79	15.76	16.28	16.75	0.00	0.00	0.00	0.00	0.00
8H	4H	15.32	15.92	15.80	16.37	16.84	0.00	0.00	0.00	0.00	0.00
	6H	15.22	15.70	15.72	16.20	16.68	0.00	0.00	0.00	0.00	0.00
	8H	15.15	15.58	15.68	16.10	16.59	0.00	0.00	0.00	0.00	0.00
	12H	15.10	15.48	15.62	15.98	16.55	0.00	0.00	0.00	0.00	0.00
12H	4H	15.27	15.79	15.76	16.28	16.75	0.00	0.00	0.00	0.00	0.00
	6H	15.15	15.58	15.68	16.10	16.59	0.00	0.00	0.00	0.00	0.00
	8H	15.10	15.48	15.62	15.98	16.55	0.00	0.00	0.00	0.00	0.00