

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: P1061956

Luminaire Tested: S125RDR-H1270D927-X4F0-XX-UDD-BVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061956
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-H1270D927-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: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

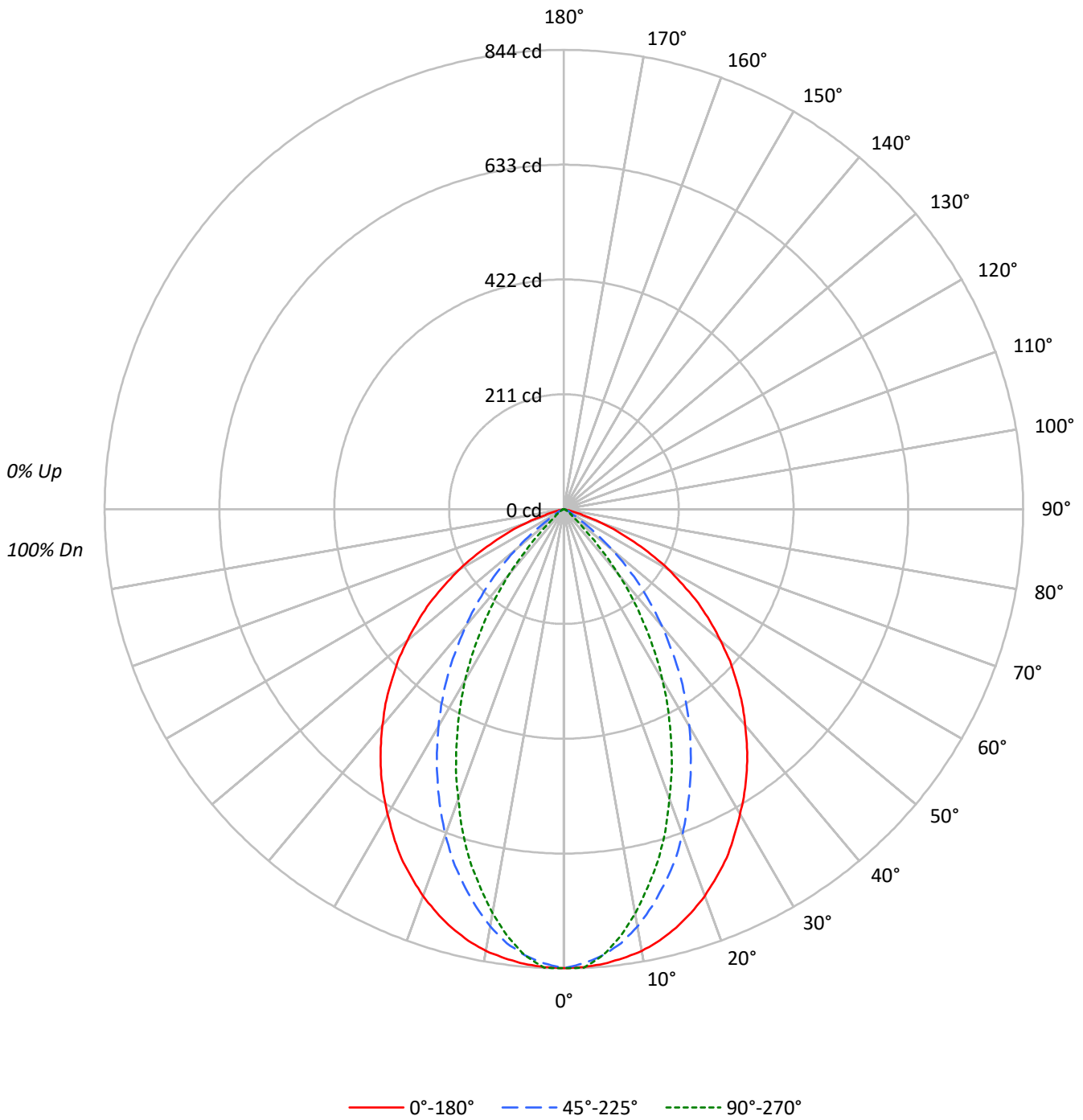
Lumens per Lamp: N/A
Luminaire Lumens: 1089.7 lumens
Efficiency: N/A
Efficacy: 29.9 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 0.81 / 0.97
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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	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°	5808	5808	5808
5°	5799	5691	5691
10°	5765	5446	5274
15°	5679	5084	4767
20°	5544	4664	4150
25°	5376	4176	3533
30°	5149	3663	2884
35°	4929	3124	2160
40°	4660	2520	1400
45°	4366	1907	607
50°	4017	1216	226
55°	3620	534	161
60°	3065	230	107
65°	2320	145	54
70°	1411	66	22
75°	295	29	29
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4366 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.7	7.1
10°-20°	202.7	18.6
20°-30°	260.2	23.9
30°-40°	245.0	22.5
40°-50°	171.3	15.7
50°-60°	91.5	8.4
60°-70°	36.5	3.3
70°-80°	4.7	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°	540.7	49.6
0°-40°	785.7	72.1
0°-60°	1048.4	96.2
0°-90°	1089.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1089.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	844	844	844	844	844	
5°	839	837	823	826	823	80
15°	797	771	713	680	669	224
25°	708	645	550	490	465	325
35°	586	493	372	287	257	366
45°	448	336	196	95	62	346
55°	302	185	44	16	13	267
65°	142	57	9	4	3	142
75°	11	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°	843.5	843.5	843.5	843.5	843.5
2.5°	842.4	843.5	835.7	842.4	843.5
5°	839.0	836.8	823.4	825.7	823.4
7.5°	832.3	826.8	804.5	796.7	792.3
10°	824.6	812.3	778.9	762.2	754.4
12.5°	812.3	794.5	747.8	722.2	711.1
15°	796.7	771.1	713.3	679.9	668.8
17.5°	777.8	744.4	677.7	636.5	619.8
20°	756.7	712.2	636.5	587.5	566.4
22.5°	732.2	681.0	594.2	539.7	518.5
25°	707.7	645.4	549.7	489.6	465.1
27.5°	677.7	608.7	505.2	440.7	413.9
30°	647.6	572.0	460.7	390.6	362.8
32.5°	617.6	533.0	416.2	338.3	310.5
35°	586.4	493.0	371.7	287.1	257.0
37.5°	553.0	452.9	323.8	238.1	207.0
40°	518.5	413.9	280.4	190.3	155.8
42.5°	485.2	375.0	237.0	143.5	105.7
45°	448.4	336.1	195.8	94.6	62.3
47.5°	413.9	298.2	153.6	54.5	32.3
50°	375.0	259.3	113.5	28.9	21.1
52.5°	338.3	221.4	75.7	18.9	16.7
55°	301.6	184.7	44.5	15.6	13.4
57.5°	259.3	149.1	24.5	12.2	10.0
60°	222.6	116.8	16.7	8.9	7.8
62.5°	180.3	85.7	12.2	6.7	5.6
65°	142.4	56.8	8.9	4.5	3.3
67.5°	105.7	33.4	5.6	2.2	2.2
70°	70.1	17.8	3.3	1.1	1.1
72.5°	36.7	7.8	2.2	1.1	1.1
75°	11.1	3.3	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	15.06	16.32	15.42	16.63	16.95	0.00	0.00	0.00	0.00	0.00
	3H	15.64	16.75	16.02	17.08	17.45	0.00	0.00	0.00	0.00	0.00
	4H	15.60	16.64	16.01	16.99	17.37	0.00	0.00	0.00	0.00	0.00
	6H	15.52	16.46	15.93	16.83	17.23	0.00	0.00	0.00	0.00	0.00
	8H	15.47	16.36	15.90	16.76	17.16	0.00	0.00	0.00	0.00	0.00
	12H	15.43	16.28	15.86	16.66	17.09	0.00	0.00	0.00	0.00	0.00
4H	2H	14.83	15.86	15.23	16.21	16.60	0.00	0.00	0.00	0.00	0.00
	3H	15.42	16.26	15.83	16.66	17.07	0.00	0.00	0.00	0.00	0.00
	4H	15.37	16.11	15.81	16.53	16.98	0.00	0.00	0.00	0.00	0.00
	6H	15.28	15.92	15.75	16.37	16.84	0.00	0.00	0.00	0.00	0.00
	8H	15.22	15.82	15.69	16.26	16.74	0.00	0.00	0.00	0.00	0.00
	12H	15.17	15.69	15.66	16.18	16.65	0.00	0.00	0.00	0.00	0.00
8H	4H	15.22	15.82	15.69	16.26	16.74	0.00	0.00	0.00	0.00	0.00
	6H	15.12	15.60	15.62	16.10	16.58	0.00	0.00	0.00	0.00	0.00
	8H	15.05	15.48	15.57	16.00	16.49	0.00	0.00	0.00	0.00	0.00
	12H	15.00	15.38	15.52	15.88	16.45	0.00	0.00	0.00	0.00	0.00
12H	4H	15.17	15.69	15.66	16.18	16.65	0.00	0.00	0.00	0.00	0.00
	6H	15.05	15.48	15.57	16.00	16.49	0.00	0.00	0.00	0.00	0.00
	8H	15.00	15.38	15.52	15.88	16.45	0.00	0.00	0.00	0.00	0.00