

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: P1061974

Luminaire Tested: S125RDR-H1270D935-X4F0-XX-UDD-BVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061974
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-H1270D935-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: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

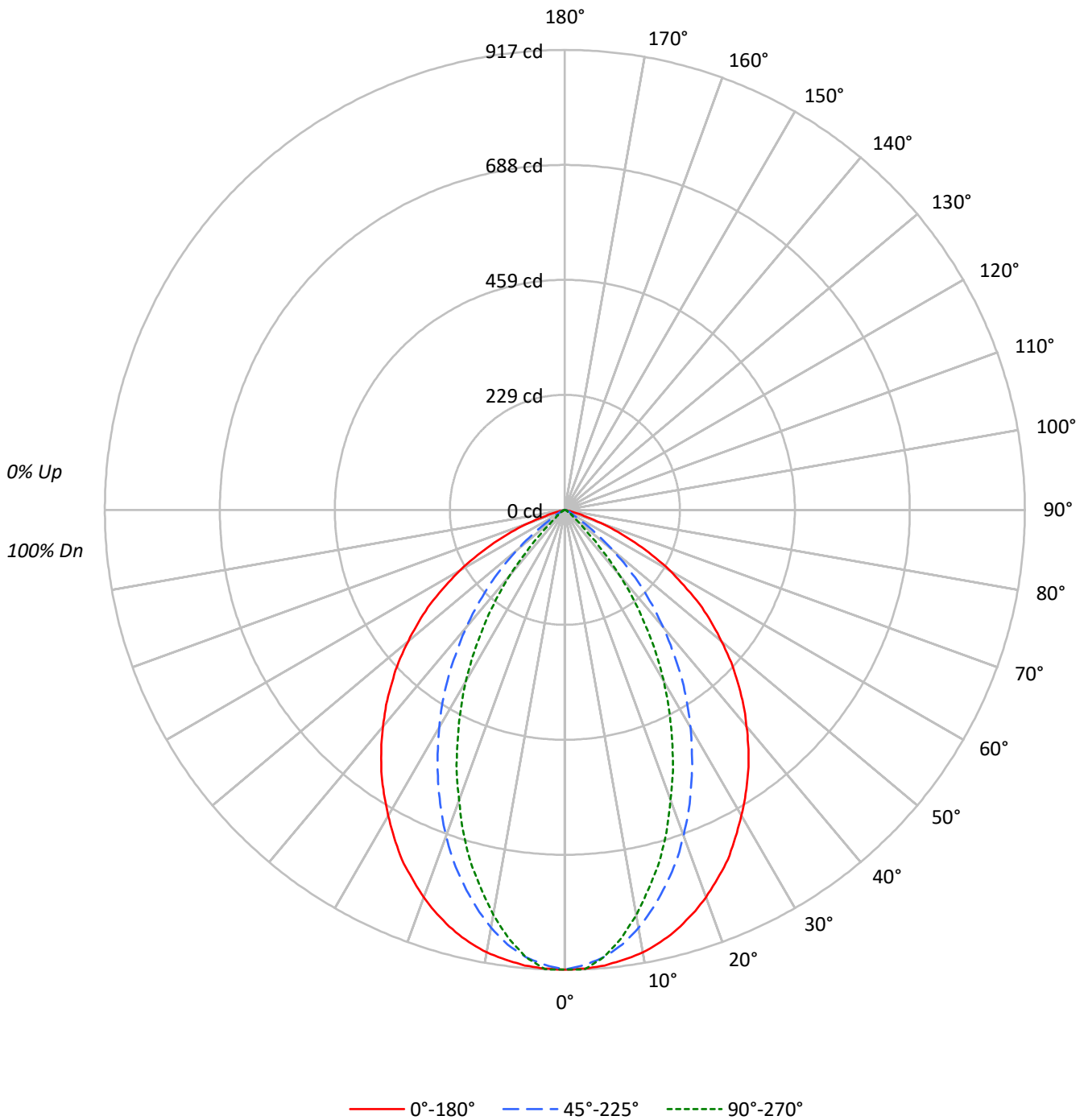
Lumens per Lamp: N/A
Luminaire Lumens: 1184.3 lumens
Efficiency: N/A
Efficacy: 32.4 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 0.81 / 0.97
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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	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°	6312	6312	6312
5°	6303	6186	6186
10°	6266	5919	5733
15°	6172	5526	5181
20°	6026	5069	4511
25°	5844	4539	3840
30°	5596	3981	3135
35°	5358	3395	2348
40°	5066	2740	1522
45°	4746	2073	659
50°	4366	1322	246
55°	3935	581	174
60°	3331	249	117
65°	2522	158	59
70°	1534	72	24
75°	322	32	32
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4746 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.5	7.1
10°-20°	220.3	18.6
20°-30°	282.9	23.9
30°-40°	266.3	22.5
40°-50°	186.2	15.7
50°-60°	99.5	8.4
60°-70°	39.7	3.3
70°-80°	5.1	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°	587.7	49.6
0°-40°	853.9	72.1
0°-60°	1139.5	96.2
0°-90°	1184.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1184.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	917	917	917	917	917	
5°	912	910	895	897	895	87
15°	866	838	775	739	727	244
25°	769	702	598	532	506	353
35°	637	536	404	312	279	398
45°	487	365	213	103	68	376
55°	328	201	48	17	14	291
65°	155	62	10	5	4	154
75°	12	4	1	1	1	24
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°	916.7	916.7	916.7	916.7	916.7
2.5°	915.5	916.7	908.3	915.5	916.7
5°	911.9	909.5	895.0	897.4	895.0
7.5°	904.6	898.6	874.4	865.9	861.1
10°	896.2	882.9	846.6	828.5	820.0
12.5°	882.9	863.5	812.7	784.9	772.8
15°	865.9	838.1	775.2	739.0	726.9
17.5°	845.4	809.1	736.5	691.8	673.6
20°	822.4	774.0	691.8	638.6	615.6
22.5°	795.8	740.2	645.8	586.6	563.6
25°	769.2	701.5	597.5	532.1	505.5
27.5°	736.5	661.6	549.1	478.9	449.9
30°	703.9	621.6	500.7	424.5	394.3
32.5°	671.2	579.3	452.3	367.7	337.4
35°	637.4	535.8	403.9	312.0	279.4
37.5°	601.1	492.2	351.9	258.8	225.0
40°	563.6	449.9	304.8	206.8	169.3
42.5°	527.3	407.6	257.6	156.0	114.9
45°	487.4	365.2	212.9	102.8	67.7
47.5°	449.9	324.1	166.9	59.3	35.1
50°	407.6	281.8	123.4	31.4	23.0
52.5°	367.7	240.7	82.2	20.6	18.1
55°	327.8	200.8	48.4	16.9	14.5
57.5°	281.8	162.1	26.6	13.3	10.9
60°	241.9	127.0	18.1	9.7	8.5
62.5°	195.9	93.1	13.3	7.3	6.0
65°	154.8	61.7	9.7	4.8	3.6
67.5°	114.9	36.3	6.0	2.4	2.4
70°	76.2	19.4	3.6	1.2	1.2
72.5°	39.9	8.5	2.4	1.2	1.2
75°	12.1	3.6	1.2	1.2	1.2
77.5°	0.0	1.2	0.0	0.0	1.2
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	15.35	16.61	15.71	16.92	17.24	0.00	0.00	0.00	0.00	0.00
	3H	15.93	17.04	16.31	17.37	17.74	0.00	0.00	0.00	0.00	0.00
	4H	15.89	16.93	16.30	17.28	17.66	0.00	0.00	0.00	0.00	0.00
	6H	15.81	16.75	16.22	17.13	17.52	0.00	0.00	0.00	0.00	0.00
	8H	15.76	16.66	16.19	17.05	17.45	0.00	0.00	0.00	0.00	0.00
	12H	15.72	16.57	16.15	16.95	17.38	0.00	0.00	0.00	0.00	0.00
4H	2H	15.12	16.15	15.52	16.50	16.89	0.00	0.00	0.00	0.00	0.00
	3H	15.71	16.55	16.13	16.95	17.36	0.00	0.00	0.00	0.00	0.00
	4H	15.66	16.40	16.10	16.82	17.27	0.00	0.00	0.00	0.00	0.00
	6H	15.57	16.21	16.04	16.66	17.13	0.00	0.00	0.00	0.00	0.00
	8H	15.51	16.11	15.99	16.56	17.03	0.00	0.00	0.00	0.00	0.00
	12H	15.46	15.98	15.95	16.47	16.94	0.00	0.00	0.00	0.00	0.00
8H	4H	15.51	16.11	15.99	16.56	17.03	0.00	0.00	0.00	0.00	0.00
	6H	15.41	15.89	15.91	16.39	16.87	0.00	0.00	0.00	0.00	0.00
	8H	15.34	15.77	15.87	16.29	16.78	0.00	0.00	0.00	0.00	0.00
	12H	15.29	15.67	15.81	16.17	16.74	0.00	0.00	0.00	0.00	0.00
12H	4H	15.46	15.98	15.95	16.47	16.94	0.00	0.00	0.00	0.00	0.00
	6H	15.34	15.77	15.87	16.29	16.78	0.00	0.00	0.00	0.00	0.00
	8H	15.29	15.67	15.81	16.17	16.74	0.00	0.00	0.00	0.00	0.00