

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: P1061959

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061959
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: S125RDR-H1270D927-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: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

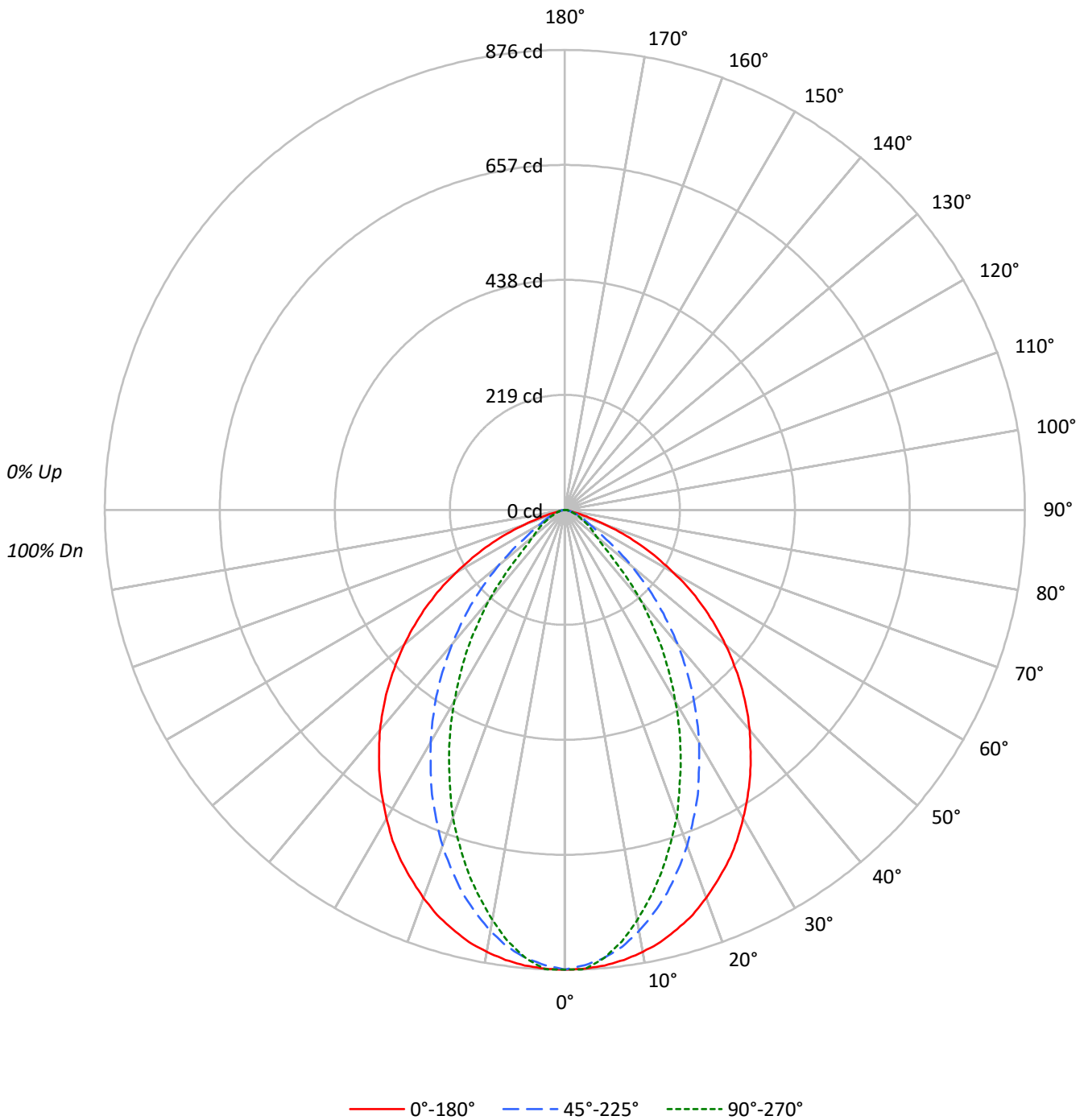
Lumens per Lamp: N/A
Luminaire Lumens: 1266.6 lumens
Efficiency: N/A
Efficacy: 34.7 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 0.85 / 1.01
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 36.5
Input Voltage (V): 120
Input Current (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	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°	6030	6030	6030
5°	6022	5922	5922
10°	5976	5695	5547
15°	5894	5378	5084
20°	5765	4991	4566
25°	5605	4548	3965
30°	5397	4061	3344
35°	5173	3555	2712
40°	4921	3000	2011
45°	4627	2405	1213
50°	4279	1764	834
55°	3861	1082	695
60°	3279	735	552
65°	2592	562	435
70°	1635	403	358
75°	532	295	295
80°	178	222	266
85°	87	174	174

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4627 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.0	6.4
10°-20°	213.9	16.9
20°-30°	281.4	22.2
30°-40°	276.5	21.8
40°-50°	209.2	16.5
50°-60°	126.8	10.0
60°-70°	59.9	4.7
70°-80°	15.6	1.2
80°-90°	2.3	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°	576.3	45.5
0°-40°	852.8	67.3
0°-60°	1188.7	93.9
0°-90°	1266.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1266.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	876	876	876	876	876	
5°	871	869	857	858	857	83
15°	827	805	754	726	713	233
25°	738	682	599	543	522	339
35°	615	533	423	348	323	384
45°	475	374	247	157	125	366
55°	322	220	90	61	58	286
65°	159	81	34	29	27	157
75°	20	13	11	11	11	31
85°	1	1	2	2	2	2
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	875.8	875.8	875.8	875.8	875.8
2.5°	874.7	874.7	868.0	875.8	875.8
5°	871.3	869.1	856.9	858.0	856.9
7.5°	864.7	860.2	839.1	833.5	829.1
10°	854.7	845.7	814.6	801.2	793.4
12.5°	843.5	827.9	785.7	766.7	754.5
15°	826.8	804.6	754.5	725.6	713.3
17.5°	809.0	776.8	717.8	683.3	667.7
20°	786.8	748.9	681.1	638.8	623.2
22.5°	762.3	717.8	638.8	592.0	570.9
25°	737.8	682.2	598.7	543.1	521.9
27.5°	710.0	646.6	553.1	495.2	471.8
30°	678.8	610.9	510.8	450.7	420.6
32.5°	647.7	574.2	466.3	400.6	370.6
35°	615.4	533.0	422.9	348.3	322.7
37.5°	580.9	494.1	378.4	300.5	270.4
40°	547.5	455.1	333.8	251.5	223.7
42.5°	511.9	416.2	289.3	203.6	172.5
45°	475.2	373.9	247.0	156.9	124.6
47.5°	437.3	336.1	204.8	115.7	93.5
50°	399.5	296.0	164.7	85.7	77.9
52.5°	360.6	257.1	124.6	71.2	67.9
55°	321.6	220.3	90.1	61.2	57.9
57.5°	281.5	180.3	67.9	52.3	49.0
60°	238.1	144.7	53.4	43.4	40.1
62.5°	198.1	113.5	43.4	35.6	33.4
65°	159.1	81.2	34.5	28.9	26.7
67.5°	119.1	54.5	26.7	22.3	22.3
70°	81.2	35.6	20.0	17.8	17.8
72.5°	49.0	21.1	14.5	14.5	14.5
75°	20.0	13.4	11.1	11.1	11.1
77.5°	6.7	7.8	7.8	8.9	8.9
80°	4.5	4.5	5.6	6.7	6.7
82.5°	2.2	3.3	3.3	4.5	4.5
85°	1.1	1.1	2.2	2.2	2.2
87.5°	0.0	0.0	0.0	1.1	1.1
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	15.57	16.90	15.94	17.22	17.53	6.23	7.56	6.59	7.87	8.19
	3H	16.28	17.46	16.66	17.79	18.15	7.01	8.19	7.39	8.52	8.88
	4H	16.29	17.39	16.70	17.74	18.12	7.26	8.35	7.66	8.71	9.09
	6H	16.22	17.23	16.64	17.60	17.99	7.44	8.44	7.85	8.81	9.21
	8H	16.18	17.14	16.61	17.53	17.93	7.48	8.44	7.91	8.83	9.23
	12H	16.14	17.05	16.58	17.43	17.87	7.49	8.40	7.92	8.78	9.21
4H	2H	15.40	16.50	15.81	16.85	17.23	6.72	7.81	7.12	8.16	8.54
	3H	16.15	17.04	16.56	17.44	17.85	7.62	8.52	8.04	8.92	9.32
	4H	16.17	16.96	16.60	17.38	17.82	7.94	8.73	8.37	9.15	9.59
	6H	16.11	16.79	16.57	17.24	17.70	8.20	8.88	8.66	9.33	9.79
	8H	16.05	16.69	16.52	17.14	17.61	8.26	8.90	8.73	9.35	9.82
	12H	16.01	16.57	16.50	17.06	17.53	8.29	8.85	8.78	9.34	9.81
8H	4H	16.05	16.69	16.52	17.13	17.61	8.05	8.69	8.52	9.13	9.60
	6H	15.98	16.49	16.48	16.99	17.47	8.37	8.89	8.87	9.38	9.87
	8H	15.92	16.39	16.44	16.90	17.39	8.48	8.94	9.00	9.46	9.95
	12H	15.88	16.29	16.40	16.79	17.36	8.54	8.95	9.05	9.44	10.02
12H	4H	16.01	16.57	16.49	17.05	17.53	8.02	8.58	8.51	9.07	9.54
	6H	15.92	16.38	16.44	16.90	17.39	8.34	8.81	8.86	9.32	9.81
	8H	15.88	16.29	16.40	16.79	17.36	8.48	8.89	9.00	9.39	9.96