

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: P1061689

Luminaire Tested: S125RDRP-S610D835-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061689
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: S125RDRP-S610D835-X4F0-XX-UDD-SVL-B
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

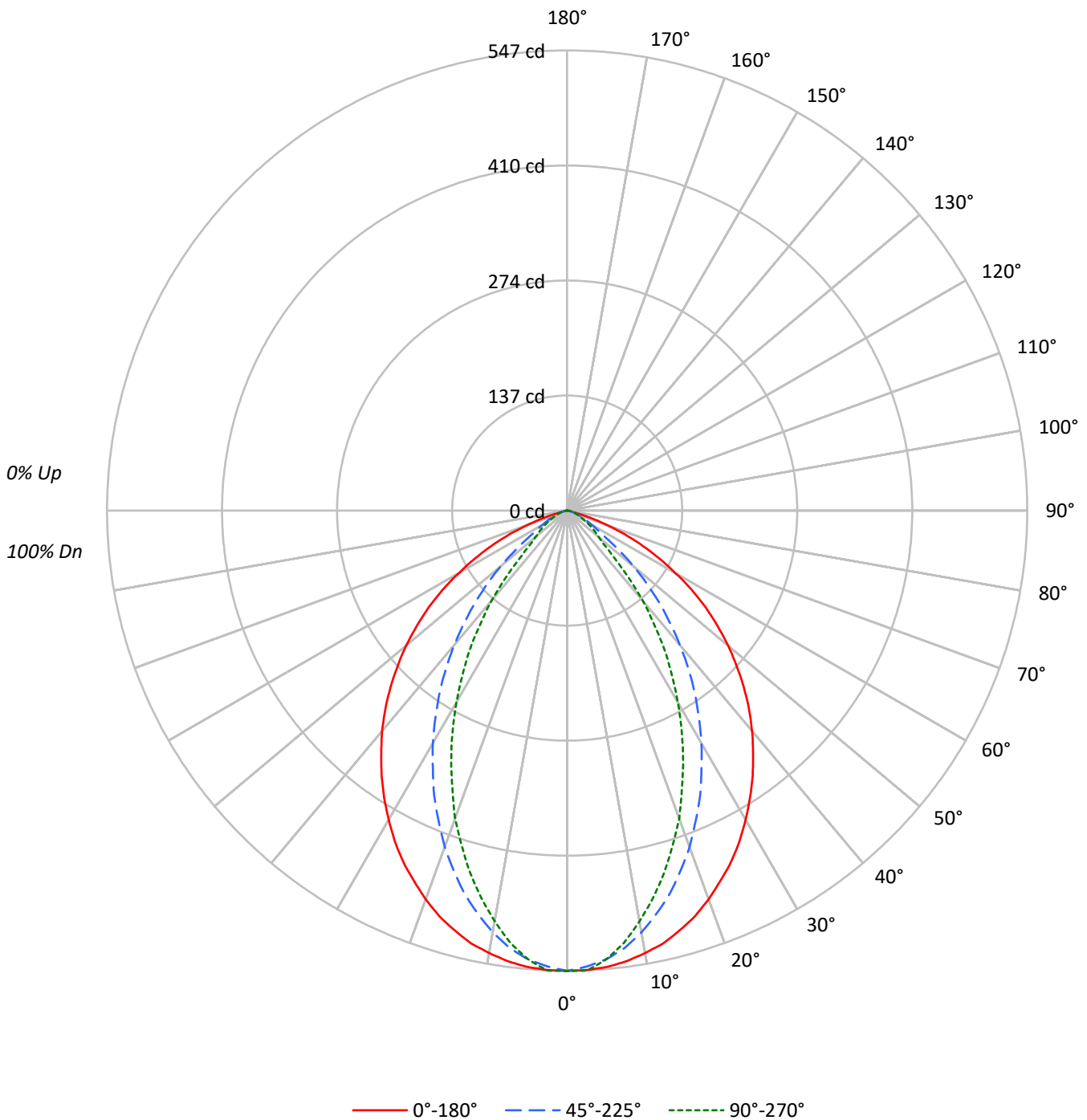
Lumens per Lamp: N/A
Luminaire Lumens: 791.4 lumens
Efficiency: N/A
Efficacy: 40.4 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 0.85 / 1.01
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 19.6
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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	112	108	105	102	109	106	103	101	102	100	97	98	96	95	95	93	92	90				90
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80				80
3	97	89	82	77	95	87	81	77	84	79	75	82	78	74	79	76	73	71				71
4	90	81	74	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63				63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57				57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52				52
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47				47
8	69	58	50	45	68	57	50	45	56	50	45	55	49	45	54	48	45	43				43
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39				39
10	62	50	43	38	61	50	43	38	49	43	38	48	42	38	47	42	38	36				36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3768	3768	3768
5°	3763	3700	3700
10°	3733	3559	3466
15°	3682	3361	3177
20°	3602	3118	2853
25°	3502	2842	2477
30°	3373	2538	2089
35°	3232	2221	1695
40°	3075	1875	1257
45°	2891	1503	759
50°	2674	1102	522
55°	2413	676	435
60°	2049	460	344
65°	1619	352	272
70°	1023	252	223
75°	333	186	186
80°	111	139	167
85°	55	111	111

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2891 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.6	6.4
10°-20°	133.7	16.9
20°-30°	175.8	22.2
30°-40°	172.8	21.8
40°-50°	130.7	16.5
50°-60°	79.2	10.0
60°-70°	37.4	4.7
70°-80°	9.8	1.2
80°-90°	1.5	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°	360.1	45.5
0°-40°	532.8	67.3
0°-60°	742.8	93.9
0°-90°	791.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	791.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	547	547	547	547	547	
5°	544	543	535	536	535	52
15°	517	503	472	453	446	146
25°	461	426	374	339	326	212
35°	384	333	264	218	202	240
45°	297	234	154	98	78	229
55°	201	138	56	38	36	179
65°	99	51	22	18	17	98
75°	12	8	7	7	7	19
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	547.2	547.2	547.2	547.2	547.2
2.5°	546.5	546.5	542.4	547.2	547.2
5°	544.5	543.1	535.4	536.1	535.4
7.5°	540.3	537.5	524.3	520.8	518.0
10°	534.0	528.5	509.0	500.7	495.8
12.5°	527.1	517.3	490.9	479.1	471.5
15°	516.6	502.7	471.5	453.4	445.7
17.5°	505.5	485.4	448.5	426.9	417.2
20°	491.6	468.0	425.6	399.1	389.4
22.5°	476.3	448.5	399.1	369.9	356.7
25°	461.0	426.3	374.1	339.3	326.1
27.5°	443.6	404.0	345.6	309.4	294.8
30°	424.2	381.7	319.2	281.6	262.8
32.5°	404.7	358.8	291.4	250.3	231.6
35°	384.5	333.1	264.2	217.6	201.7
37.5°	363.0	308.7	236.4	187.7	169.0
40°	342.1	284.4	208.6	157.2	139.8
42.5°	319.9	260.1	180.8	127.2	107.8
45°	296.9	233.6	154.4	98.0	77.9
47.5°	273.3	210.0	127.9	72.3	58.4
50°	249.6	185.0	102.9	53.5	48.7
52.5°	225.3	160.6	77.9	44.5	42.4
55°	201.0	137.7	56.3	38.2	36.2
57.5°	175.9	112.6	42.4	32.7	30.6
60°	148.8	90.4	33.4	27.1	25.0
62.5°	123.8	70.9	27.1	22.3	20.9
65°	99.4	50.8	21.6	18.1	16.7
67.5°	74.4	34.1	16.7	13.9	13.9
70°	50.8	22.3	12.5	11.1	11.1
72.5°	30.6	13.2	9.0	9.0	9.0
75°	12.5	8.3	7.0	7.0	7.0
77.5°	4.2	4.9	4.9	5.6	5.6
80°	2.8	2.8	3.5	4.2	4.2
82.5°	1.4	2.1	2.1	2.8	2.8
85°	0.7	0.7	1.4	1.4	1.4
87.5°	0.0	0.0	0.0	0.7	0.7
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	13.94	15.27	14.30	15.58	15.89	4.60	5.93	4.96	6.24	6.56
	3H	14.64	15.82	15.02	16.15	16.52	5.37	6.55	5.75	6.88	7.25
	4H	14.66	15.76	15.06	16.11	16.49	5.63	6.72	6.03	7.07	7.46
	6H	14.59	15.60	15.00	15.97	16.36	5.81	6.81	6.22	7.18	7.58
	8H	14.55	15.50	14.98	15.89	16.30	5.85	6.80	6.28	7.20	7.60
	12H	14.51	15.42	14.94	15.80	16.23	5.86	6.77	6.29	7.15	7.58
4H	2H	13.77	14.86	14.17	15.21	15.60	5.09	6.18	5.49	6.53	6.91
	3H	14.51	15.41	14.93	15.81	16.21	5.99	6.88	6.40	7.28	7.69
	4H	14.53	15.33	14.97	15.75	16.19	6.30	7.10	6.74	7.52	7.96
	6H	14.47	15.15	14.93	15.60	16.07	6.57	7.25	7.03	7.70	8.17
	8H	14.42	15.06	14.89	15.50	15.98	6.64	7.27	7.10	7.72	8.19
	12H	14.38	14.94	14.86	15.42	15.90	6.66	7.22	7.15	7.71	8.18
8H	4H	14.41	15.05	14.88	15.50	15.97	6.42	7.06	6.89	7.50	7.97
	6H	14.34	14.86	14.84	15.36	15.84	6.74	7.26	7.24	7.76	8.24
	8H	14.29	14.75	14.81	15.27	15.76	6.85	7.31	7.37	7.83	8.32
	12H	14.25	14.66	14.76	15.15	15.72	6.91	7.32	7.43	7.82	8.39
12H	4H	14.37	14.93	14.86	15.42	15.89	6.39	6.95	6.88	7.44	7.91
	6H	14.28	14.75	14.80	15.26	15.76	6.71	7.18	7.23	7.69	8.19
	8H	14.25	14.66	14.76	15.15	15.73	6.85	7.27	7.37	7.76	8.33