

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: P1061683

Luminaire Tested: S125RDRP-S610D830-X4F0-XX-UDD-WVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061683
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-46)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-S610D830-X4F0-XX-UDD-WVL-B
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

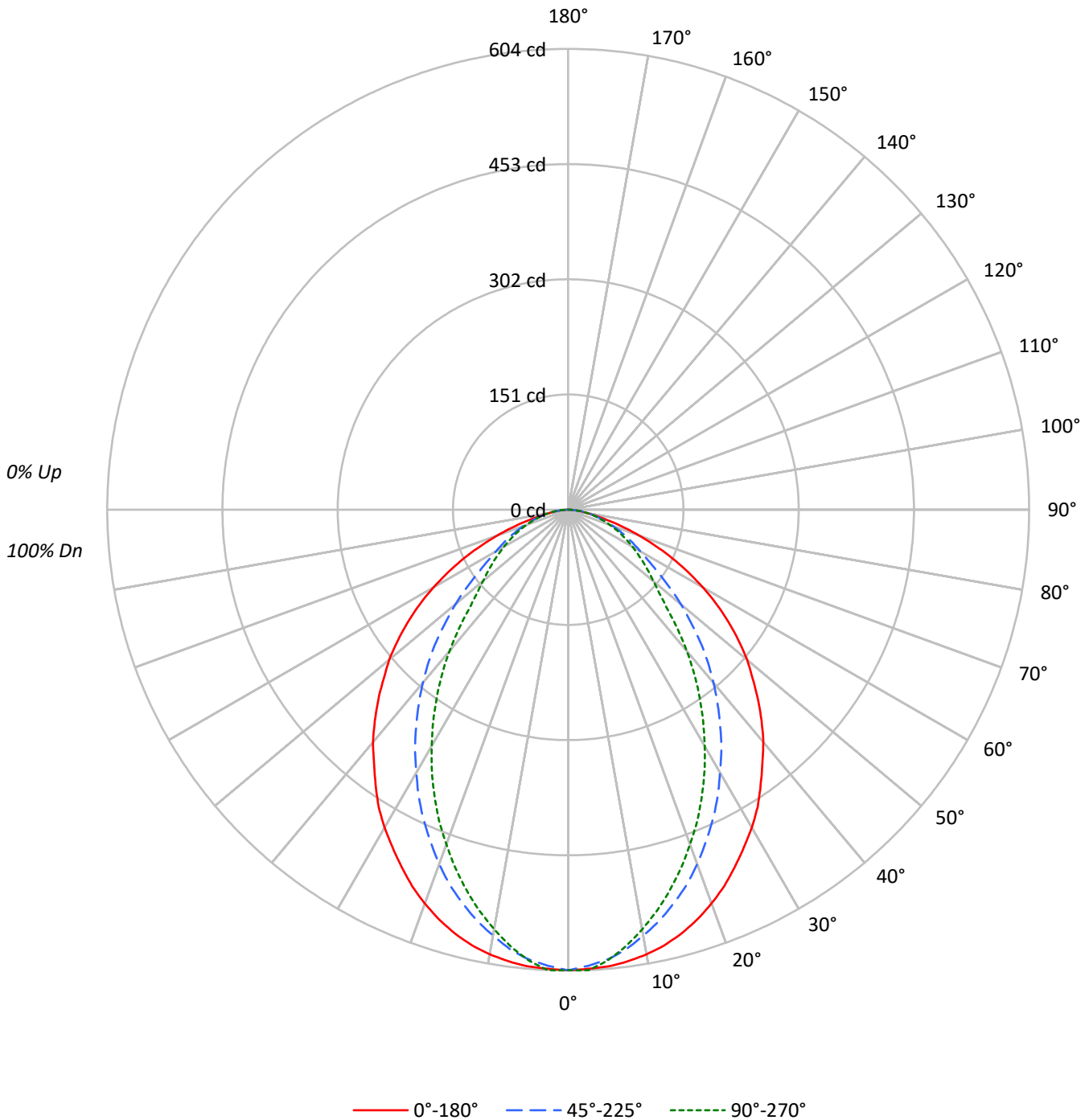
Lumens per Lamp: N/A
Luminaire Lumens: 1143.5 lumens
Efficiency: N/A
Efficacy: 58.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.95 / 1.11
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	80	77	75
3	93	84	77	71	91	82	76	70	80	74	69	77	72	68	74	70	67	65
4	86	75	68	61	84	74	67	61	72	65	60	70	64	59	67	63	59	57
5	80	68	60	54	78	67	59	54	65	58	53	63	57	53	61	56	52	50
6	74	62	54	48	73	61	53	48	59	53	47	58	52	47	56	51	47	45
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	40
8	65	52	44	39	63	52	44	39	50	43	39	49	43	38	48	42	38	36
9	61	48	41	35	60	48	40	35	47	40	35	46	39	35	45	39	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4156	4156	4156
5°	4154	4090	4099
10°	4138	3963	3904
15°	4097	3807	3677
20°	4024	3621	3419
25°	3923	3406	3147
30°	3825	3163	2845
35°	3697	2920	2523
40°	3575	2662	2173
45°	3427	2381	1781
50°	3279	2064	1559
55°	3077	1723	1439
60°	2806	1506	1345
65°	2455	1377	1250
70°	1993	1240	1162
75°	1429	1133	1080
80°	987	1015	1015
85°	727	877	932

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3427 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.1	4.9
10°-20°	151.8	13.3
20°-30°	209.8	18.3
30°-40°	223.5	19.5
40°-50°	196.3	17.2
50°-60°	148.9	13.0
60°-70°	96.7	8.5
70°-80°	47.9	4.2
80°-90°	12.5	1.1
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°	417.7	36.5
0°-40°	641.2	56.1
0°-60°	986.4	86.3
0°-90°	1143.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1143.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	604	604	604	604	604	
5°	601	600	592	594	593	57
15°	575	562	534	522	516	162
25°	516	488	448	425	414	238
35°	440	399	347	316	300	275
45°	352	303	244	200	183	271
55°	256	206	144	124	120	229
65°	151	112	84	78	77	149
75°	54	47	43	41	41	60
85°	9	10	11	11	12	11
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	603.6	603.6	603.6	603.6	603.6
2.5°	602.3	603.6	598.4	603.0	604.3
5°	601.0	599.7	591.8	593.8	593.1
7.5°	597.1	594.4	581.3	580.0	577.4
10°	591.8	585.3	566.9	562.3	558.4
12.5°	584.6	574.1	551.8	542.7	538.1
15°	574.8	561.7	534.1	521.7	515.8
17.5°	563.0	544.6	515.8	498.7	492.2
20°	549.2	527.6	494.2	474.5	466.6
22.5°	534.1	508.6	471.2	450.2	441.7
25°	516.4	488.3	448.3	425.3	414.2
27.5°	498.7	467.3	424.0	398.5	386.7
30°	481.1	445.0	397.8	370.3	357.8
32.5°	462.0	422.1	373.6	343.4	329.0
35°	439.8	399.1	347.4	315.9	300.2
37.5°	418.1	374.9	321.8	286.4	271.3
40°	397.8	351.9	296.2	257.6	241.8
42.5°	374.9	327.7	270.7	230.0	212.3
45°	351.9	302.8	244.5	200.5	182.9
47.5°	327.7	279.2	216.9	173.7	161.9
50°	306.1	254.9	192.7	153.4	145.5
52.5°	281.2	231.3	167.8	137.6	132.4
55°	256.3	205.8	143.5	123.9	119.9
57.5°	230.7	182.9	124.5	112.1	108.1
60°	203.8	159.3	109.4	99.6	97.7
62.5°	177.0	135.0	96.3	89.1	86.5
65°	150.7	112.1	84.5	78.0	76.7
67.5°	123.9	91.1	72.7	68.2	67.5
70°	99.0	74.1	61.6	59.0	57.7
72.5°	76.0	59.0	51.8	49.8	49.2
75°	53.7	47.2	42.6	41.3	40.6
77.5°	36.0	36.0	34.1	32.8	33.4
80°	24.9	26.2	25.6	25.6	25.6
82.5°	16.4	17.7	18.4	18.4	18.4
85°	9.2	10.5	11.1	11.1	11.8
87.5°	3.3	3.9	4.6	5.2	5.2
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	15.50	17.00	15.87	17.31	17.62	11.75	13.24	12.11	13.55	13.87
	3H	16.82	18.15	17.19	18.48	18.84	13.33	14.67	13.71	14.99	15.36
	4H	17.18	18.44	17.58	18.79	19.17	13.93	15.18	14.33	15.53	15.91
	6H	17.36	18.52	17.77	18.88	19.28	14.40	15.56	14.82	15.93	16.32
	8H	17.40	18.50	17.82	18.89	19.29	14.56	15.66	14.99	16.05	16.46
	12H	17.41	18.46	17.84	18.84	19.27	14.68	15.73	15.11	16.11	16.54
4H	2H	15.62	16.87	16.02	17.22	17.60	12.41	13.66	12.81	14.01	14.39
	3H	17.10	18.14	17.51	18.54	18.94	14.19	15.23	14.60	15.63	16.03
	4H	17.58	18.51	18.01	18.93	19.37	14.91	15.84	15.34	16.25	16.69
	6H	17.86	18.67	18.32	19.12	19.58	15.50	16.31	15.95	16.75	17.21
	8H	17.93	18.69	18.40	19.13	19.60	15.70	16.46	16.17	16.90	17.37
	12H	17.97	18.65	18.46	19.13	19.60	15.86	16.53	16.34	17.01	17.48
8H	4H	17.66	18.42	18.13	18.86	19.33	15.22	15.97	15.68	16.42	16.89
	6H	18.02	18.65	18.52	19.14	19.62	15.92	16.55	16.42	17.04	17.52
	8H	18.14	18.70	18.66	19.21	19.70	16.20	16.77	16.72	17.28	17.76
	12H	18.23	18.72	18.74	19.22	19.78	16.43	16.93	16.95	17.42	17.99
12H	4H	17.66	18.33	18.14	18.81	19.28	15.24	15.92	15.73	16.40	16.87
	6H	18.03	18.59	18.54	19.10	19.59	15.98	16.54	16.49	17.05	17.54
	8H	18.19	18.68	18.70	19.17	19.74	16.31	16.81	16.82	17.30	17.87