

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: P1061683

Luminaire Tested: S125RDR-S610D830-X4F0-XX-UDD-WVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
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: S125RDR-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

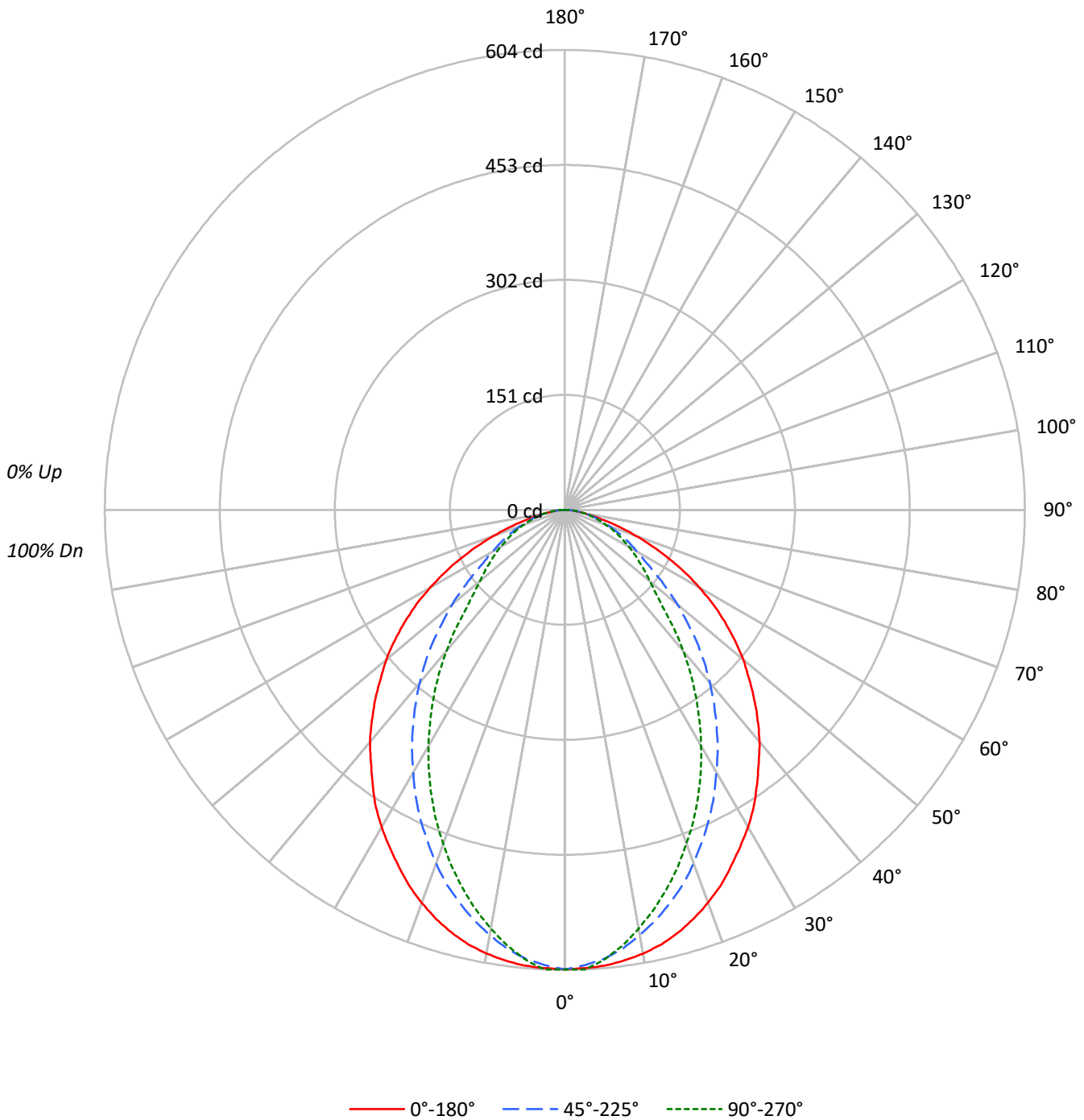
Lumens per Lamp: N/A
Luminaire Lumens: 1143.5 lumens
Efficiency: N/A
Efficacy: 58.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.95 / 1.11
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 19.6
Input Voltage (V): 120
Input Current (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	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

(END OF REPORT)