

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: P1061698

Luminaire Tested: S125RDR-S610D840-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061698
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-S610D840-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: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

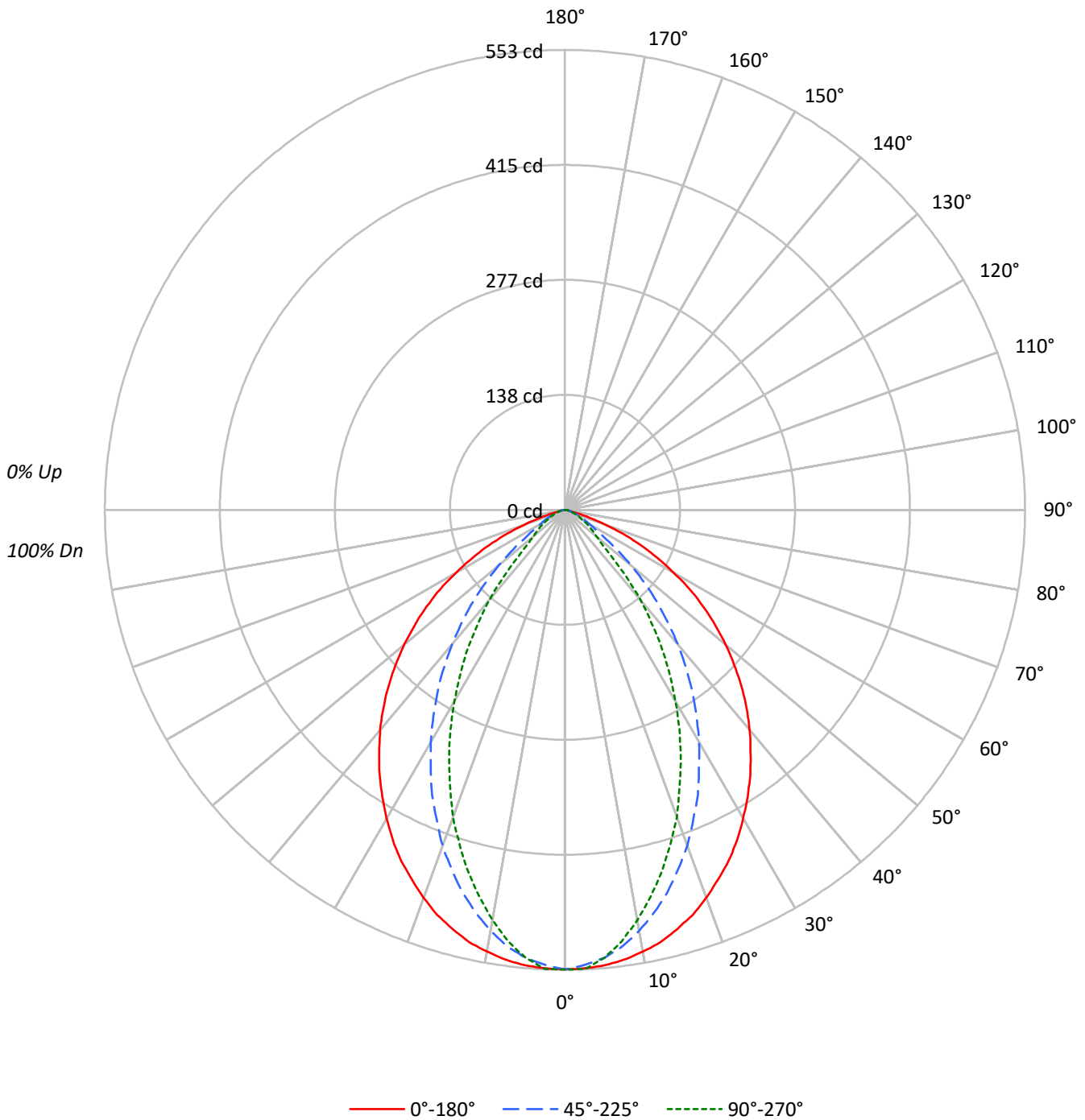
Lumens per Lamp: N/A
Luminaire Lumens: 799.2 lumens
Efficiency: N/A
Efficacy: 40.8 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 0.85 / 1.01
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 19.6
Input Voltage (V): 120
Input Current (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°	3805	3805	3805
5°	3800	3737	3737
10°	3770	3594	3501
15°	3719	3394	3208
20°	3638	3149	2881
25°	3537	2870	2502
30°	3406	2562	2110
35°	3264	2243	1711
40°	3105	1894	1268
45°	2919	1518	765
50°	2700	1113	527
55°	2436	683	438
60°	2070	464	348
65°	1636	355	275
70°	1033	254	225
75°	335	186	186
80°	111	139	167
85°	55	111	111

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2919 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.1	6.4
10°-20°	135.0	16.9
20°-30°	177.5	22.2
30°-40°	174.5	21.8
40°-50°	132.0	16.5
50°-60°	80.0	10.0
60°-70°	37.8	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°	363.6	45.5
0°-40°	538.1	67.3
0°-60°	750.1	93.9
0°-90°	799.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	799.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	553	553	553	553	553	
5°	550	548	541	541	541	52
15°	522	508	476	458	450	147
25°	466	430	378	343	329	214
35°	388	336	267	220	204	242
45°	300	236	156	99	79	231
55°	203	139	57	39	36	181
65°	100	51	22	18	17	99
75°	13	8	7	7	7	20
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°	552.6	552.6	552.6	552.6	552.6
2.5°	551.9	551.9	547.7	552.6	552.6
5°	549.8	548.4	540.7	541.4	540.7
7.5°	545.6	542.8	529.5	526.0	523.2
10°	539.3	533.7	514.0	505.6	500.7
12.5°	532.3	522.4	495.8	483.8	476.1
15°	521.7	507.7	476.1	457.8	450.1
17.5°	510.5	490.1	452.9	431.2	421.3
20°	496.5	472.6	429.8	403.1	393.2
22.5°	481.0	452.9	403.1	373.6	360.2
25°	465.6	430.5	377.8	342.7	329.3
27.5°	448.0	408.0	349.0	312.5	297.7
30°	428.4	385.5	322.3	284.4	265.4
32.5°	408.7	362.3	294.2	252.8	233.8
35°	388.3	336.4	266.8	219.8	203.6
37.5°	366.6	311.8	238.8	189.6	170.6
40°	345.5	287.2	210.7	158.7	141.1
42.5°	323.0	262.6	182.6	128.5	108.8
45°	299.8	235.9	155.9	99.0	78.6
47.5°	276.0	212.1	129.2	73.0	59.0
50°	252.1	186.8	103.9	54.1	49.2
52.5°	227.5	162.2	78.6	44.9	42.8
55°	202.9	139.0	56.9	38.6	36.5
57.5°	177.7	113.8	42.8	33.0	30.9
60°	150.3	91.3	33.7	27.4	25.3
62.5°	125.0	71.6	27.4	22.5	21.1
65°	100.4	51.3	21.8	18.3	16.9
67.5°	75.1	34.4	16.9	14.0	14.0
70°	51.3	22.5	12.6	11.2	11.2
72.5°	30.9	13.3	9.1	9.1	9.1
75°	12.6	8.4	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

(END OF REPORT)