

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: P1061693

Luminaire Tested: S125RDR-S610D835-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061693
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-85)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S610D835-X4F0-XX-UDD-WVL-S
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

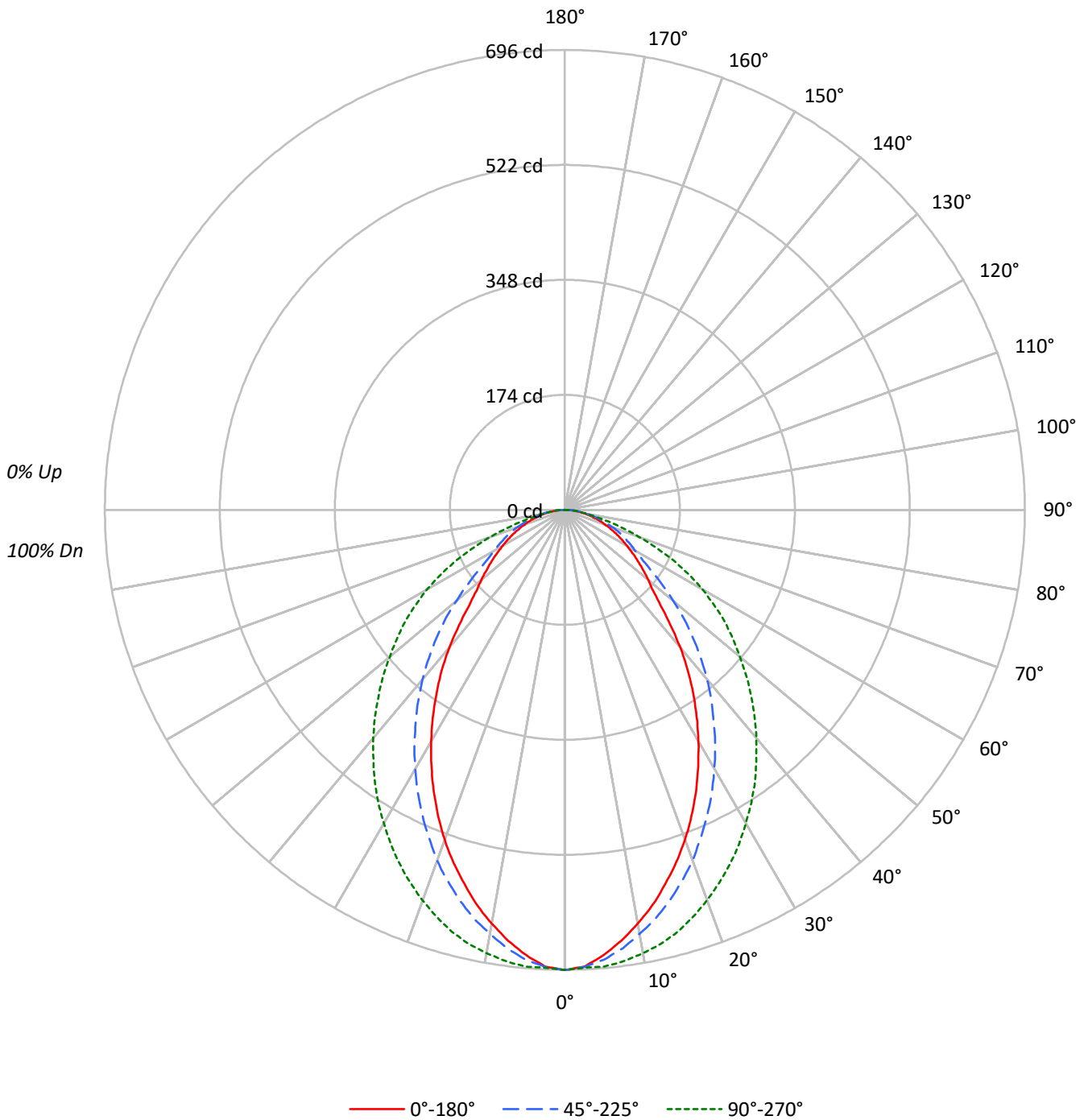
Lumens per Lamp: N/A
Luminaire Lumens: 1305.4 lumens
Efficiency: N/A
Efficacy: 66.6 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86				86
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76	74				74
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64				64
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58	56				56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50				50
6	74	62	54	48	72	61	53	48	59	52	47	58	52	47	56	51	46	44				44
7	69	57	49	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40				40
8	65	52	44	39	63	52	44	39	50	43	38	49	43	38	48	42	38	36				36
9	61	48	41	35	59	48	40	35	47	40	35	46	39	35	45	39	35	33				33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	30				30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4795	4795	4795
5°	4674	4721	4794
10°	4445	4557	4762
15°	4180	4364	4711
20°	3894	4139	4608
25°	3568	3874	4492
30°	3214	3595	4353
35°	2842	3304	4216
40°	2438	3007	4052
45°	1991	2676	3881
50°	1766	2295	3703
55°	1621	1904	3550
60°	1494	1686	3305
65°	1395	1621	2947
70°	1302	1540	2410
75°	1202	1445	1777
80°	1130	1352	1297
85°	1043	1319	1098

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 3881 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.4	4.9
10°-20°	173.6	13.3
20°-30°	238.6	18.3
30°-40°	252.8	19.4
40°-50°	220.7	16.9
50°-60°	167.7	12.8
60°-70°	112.3	8.6
70°-80°	57.9	4.4
80°-90°	17.4	1.3
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°	476.6	36.5
0°-40°	729.4	55.9
0°-60°	1117.8	85.6
0°-90°	1305.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1305.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	696	696	696	696	696	
5°	676	683	683	688	694	63
15°	586	598	612	639	661	165
25°	470	484	510	552	591	215
35°	338	358	393	449	502	211
45°	204	225	275	340	399	161
55°	135	139	159	233	296	121
65°	86	88	100	133	181	85
75°	45	48	54	58	67	48
85°	13	17	17	15	14	15
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	696.4	696.4	696.4	696.4	696.4
2.5°	691.5	696.4	692.2	692.2	693.6
5°	676.2	683.1	683.1	688.0	693.6
7.5°	657.4	665.1	669.2	680.4	688.7
10°	635.8	644.2	651.8	668.5	681.1
12.5°	612.9	621.9	633.8	655.3	672.7
15°	586.4	597.6	612.2	639.3	660.9
17.5°	560.0	571.1	589.2	621.2	645.6
20°	531.5	543.3	564.9	599.7	628.9
22.5°	500.9	514.1	537.1	576.7	610.8
25°	469.6	484.2	509.9	552.4	591.3
27.5°	436.9	454.3	482.1	527.3	570.4
30°	404.2	421.6	452.2	501.6	547.5
32.5°	371.5	390.3	423.7	475.8	525.2
35°	338.1	357.6	393.1	448.7	501.6
37.5°	305.4	324.9	364.5	422.3	475.8
40°	271.3	291.5	334.6	395.1	450.8
42.5°	236.5	258.1	304.7	367.3	425.1
45°	204.5	224.7	274.8	340.2	398.6
47.5°	180.9	194.1	244.9	312.4	372.9
50°	164.9	171.8	214.3	285.2	345.7
52.5°	148.9	154.4	185.7	257.4	320.0
55°	135.0	139.1	158.6	233.0	295.7
57.5°	121.0	125.2	137.7	208.7	267.1
60°	108.5	112.0	122.4	183.0	240.0
62.5°	96.7	99.5	110.6	158.6	210.8
65°	85.6	87.7	99.5	132.9	180.9
67.5°	74.4	76.5	88.3	108.5	148.9
70°	64.7	65.4	76.5	88.3	119.7
72.5°	55.0	55.7	64.7	71.7	91.8
75°	45.2	48.0	54.3	57.7	66.8
77.5°	36.9	40.3	43.8	45.2	45.2
80°	28.5	32.7	34.1	34.1	32.7
82.5°	20.9	24.3	25.0	23.7	22.3
85°	13.2	16.7	16.7	15.3	13.9
87.5°	6.3	9.0	9.0	8.3	6.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)