

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: P1061693

Luminaire Tested: S125RDRP-S610D835-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
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: S125RDRP-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

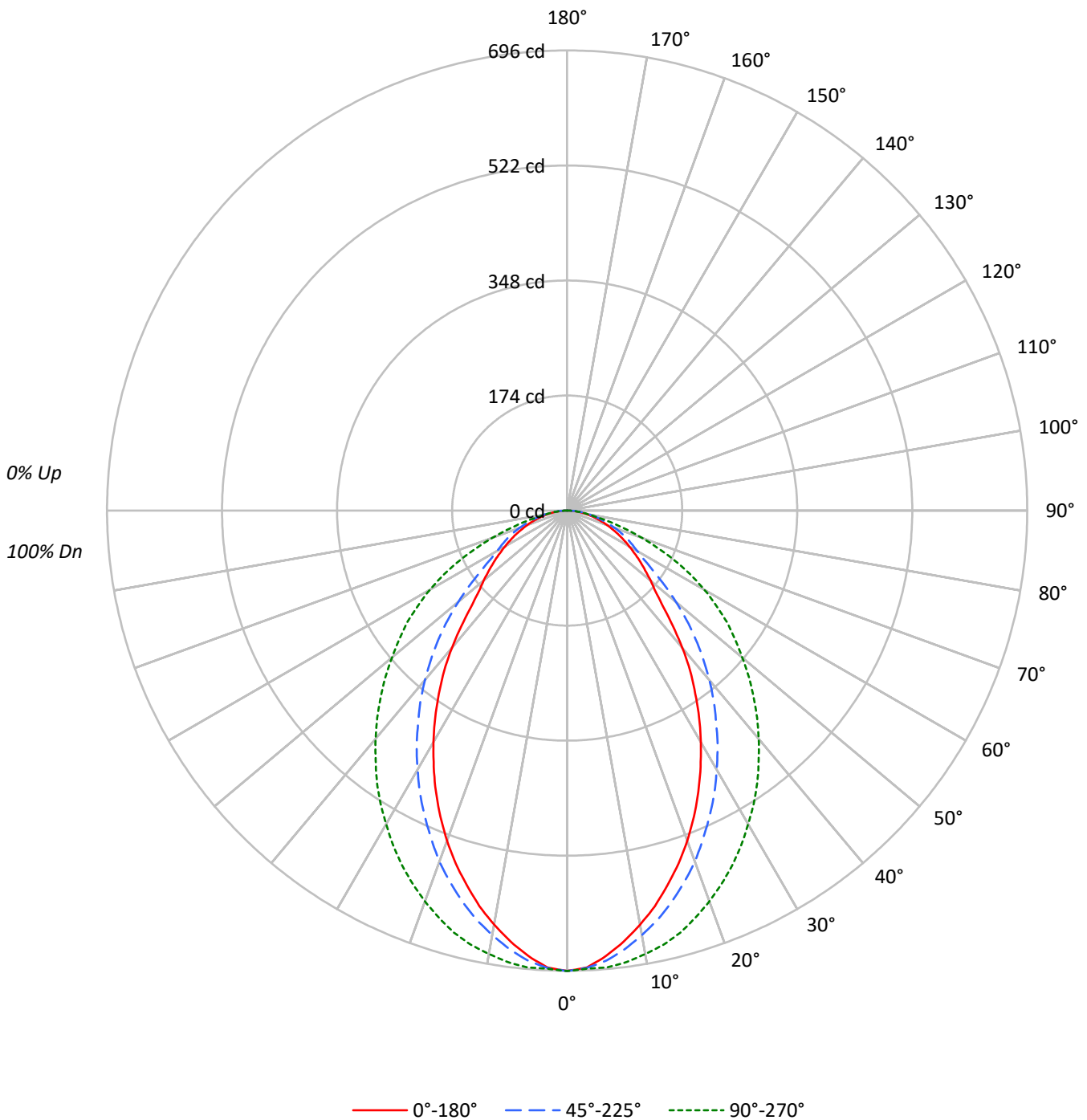
Lumens per Lamp: N/A
Luminaire Lumens: 1305.4 lumens
Efficiency: N/A
Efficacy: 66.6 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 19.6
Input Voltage (V): 120
Input Current (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	107	104	100	97	99	97	94	96	93	91	92	90	88	86
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76	74
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58	56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	62	54	48	72	61	53	48	59	52	47	58	52	47	56	51	46	44
7	69	57	49	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40
8	65	52	44	39	63	52	44	39	50	43	38	49	43	38	48	42	38	36
9	61	48	41	35	59	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°	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



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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	12.05	13.55	12.42	13.86	14.18	15.98	17.48	16.35	17.79	18.11
	3H	13.62	14.97	14.00	15.29	15.66	17.40	18.74	17.78	19.07	19.43
	4H	14.24	15.50	14.64	15.84	16.22	17.82	19.08	18.22	19.42	19.80
	6H	14.73	15.89	15.14	16.26	16.65	18.03	19.20	18.45	19.56	19.96
	8H	14.91	16.01	15.33	16.40	16.80	18.09	19.20	18.52	19.59	19.99
	12H	15.03	16.09	15.46	16.47	16.90	18.13	19.19	18.56	19.57	20.00
4H	2H	12.79	14.05	13.19	14.40	14.78	16.11	17.37	16.51	17.71	18.09
	3H	14.57	15.61	14.98	16.01	16.41	17.72	18.76	18.13	19.16	19.56
	4H	15.30	16.24	15.74	16.66	17.10	18.24	19.18	18.68	19.60	20.04
	6H	15.94	16.76	16.40	17.20	17.66	18.59	19.40	19.04	19.85	20.31
	8H	16.17	16.93	16.63	17.38	17.84	18.68	19.45	19.15	19.89	20.36
	12H	16.34	17.02	16.82	17.50	17.97	18.76	19.44	19.24	19.92	20.39
8H	4H	15.70	16.47	16.17	16.91	17.38	18.35	19.11	18.81	19.56	20.03
	6H	16.49	17.12	16.99	17.61	18.09	18.79	19.42	19.29	19.91	20.39
	8H	16.81	17.38	17.33	17.89	18.38	18.95	19.51	19.46	20.02	20.51
	12H	17.09	17.59	17.60	18.08	18.65	19.08	19.58	19.59	20.08	20.64
12H	4H	15.75	16.43	16.23	16.91	17.38	18.35	19.03	18.83	19.51	19.98
	6H	16.57	17.14	17.09	17.65	18.14	18.80	19.37	19.32	19.88	20.37
	8H	16.97	17.47	17.48	17.96	18.53	19.01	19.51	19.52	20.01	20.57