

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: P1175426

Luminaire Tested: S125RDRP-H610D940-X4F0-XX-UDD-WVL-W

Issue Date: 8/18/2025

Test Information

Test Method: LM-79-2024
Report Number: P1175426
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-82)
Test Lab: INNOVATION CENTER
Issue Date: 8/18/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-H610D940-X4F0-XX-UDD-WVL-W
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER
HIGH PERFORMANCE LIGHT ENGINE
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

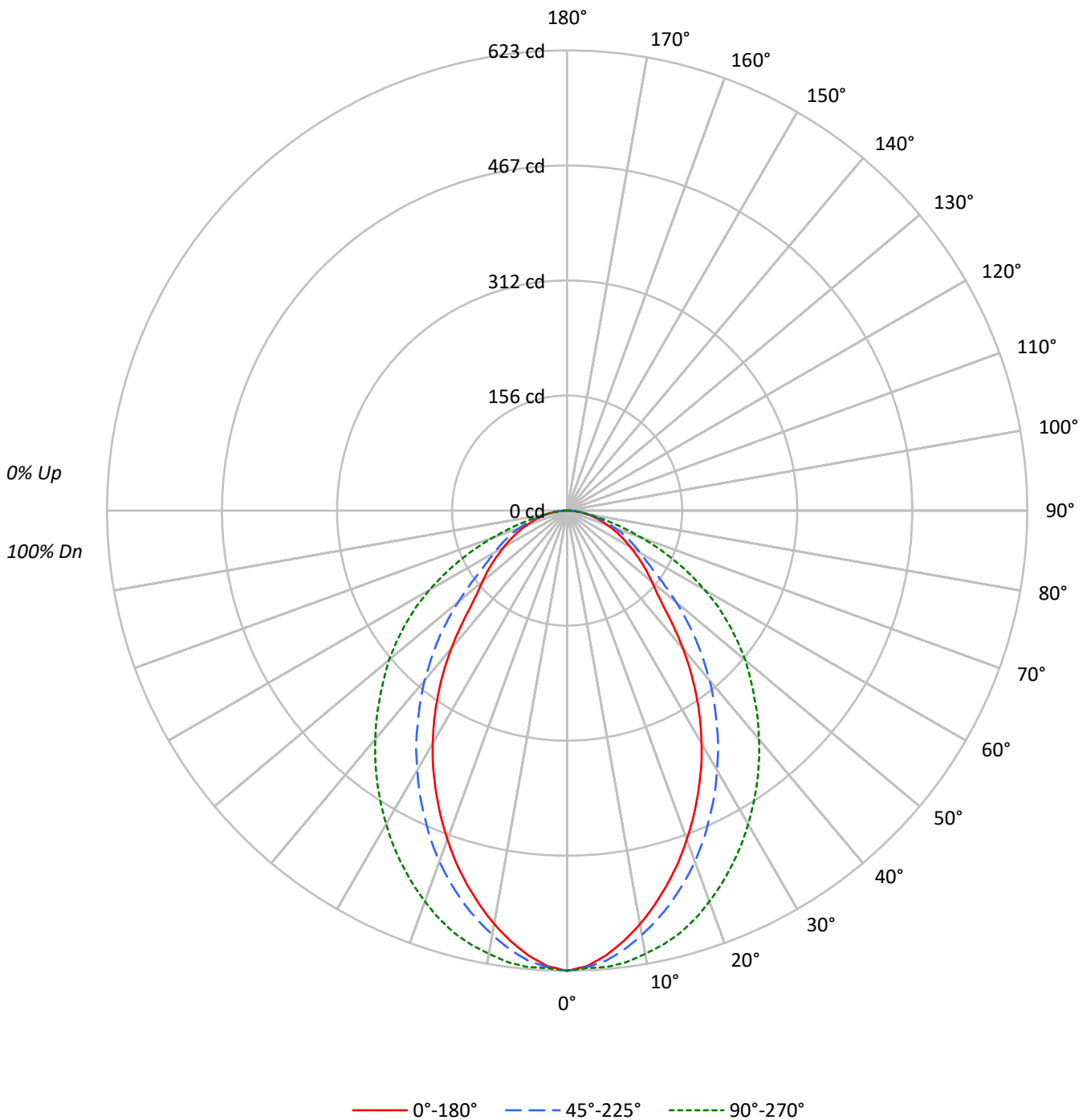
Lumens per Lamp: N/A
Luminaire Lumens: 1173.7 lumens
Efficiency: N/A
Efficacy: 67.5 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 17.4
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	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	
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	73	69	77	72	68	74	70	66				64	
4	86	75	67	61	84	74	66	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	47	59	52	47	58	51	47	56	51	46				44	
7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42				40	
8	65	52	44	39	63	51	44	39	50	43	38	49	43	38	48	42	38				36	
9	61	48	40	35	59	48	40	35	46	40	35	45	39	35	44	39	35				33	
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32				30	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4290	4290	4290
5°	4178	4226	4287
10°	3975	4078	4259
15°	3736	3905	4218
20°	3472	3705	4127
25°	3190	3471	4018
30°	2893	3225	3897
35°	2560	2965	3770
40°	2196	2696	3631
45°	1802	2399	3492
50°	1604	2062	3371
55°	1479	1726	3199
60°	1362	1573	2963
65°	1266	1483	2620
70°	1182	1385	2140
75°	1112	1280	1604
80°	1047	1174	1154
85°	964	1169	964

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 3492 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.7	4.9
10°-20°	155.5	13.2
20°-30°	213.9	18.2
30°-40°	226.8	19.3
40°-50°	198.5	16.9
50°-60°	152.3	13.0
60°-70°	101.5	8.6
70°-80°	52.0	4.4
80°-90°	15.5	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°	427.0	36.4
0°-40°	653.8	55.7
0°-60°	1004.7	85.6
0°-90°	1173.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1173.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	623	623	623	623	623	
5°	604	612	611	616	620	57
15°	524	536	548	574	592	147
25°	420	434	457	496	529	193
35°	305	319	353	405	448	190
45°	185	200	246	308	359	146
55°	123	126	144	214	266	110
65°	78	78	91	120	161	77
75°	42	44	48	51	60	44
85°	12	14	15	14	12	14
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	623.0	623.0	623.0	623.0	623.0
2.5°	617.2	623.5	618.8	619.3	619.8
5°	604.5	612.4	611.4	615.6	620.3
7.5°	587.6	596.0	598.7	609.2	616.6
10°	568.5	578.0	583.3	599.2	609.2
12.5°	546.8	557.9	566.4	587.0	601.8
15°	524.1	536.3	547.9	573.8	591.8
17.5°	499.8	511.9	527.3	556.9	578.6
20°	473.9	487.1	505.6	537.3	563.2
22.5°	447.4	461.2	482.3	517.2	546.8
25°	419.9	434.2	456.9	495.5	528.9
27.5°	392.9	406.2	432.6	473.9	510.3
30°	363.9	377.6	405.6	451.1	490.2
32.5°	334.8	348.5	380.8	428.4	469.6
35°	304.6	318.9	352.7	404.6	448.5
37.5°	274.5	289.3	326.8	380.2	426.8
40°	244.3	260.2	299.9	355.9	404.0
42.5°	213.7	230.6	272.4	332.1	381.8
45°	185.1	200.4	246.4	307.8	358.6
47.5°	164.5	173.5	218.9	282.9	336.3
50°	149.7	153.9	192.5	259.1	314.7
52.5°	136.4	139.1	166.6	236.9	290.9
55°	123.2	125.9	143.8	213.7	266.5
57.5°	110.5	112.1	126.9	190.4	242.2
60°	98.9	100.0	114.2	167.1	215.2
62.5°	88.3	88.8	102.1	143.3	188.3
65°	77.7	78.3	91.0	119.5	160.8
67.5°	68.2	68.2	80.4	97.8	134.3
70°	58.7	58.7	68.8	79.3	106.3
72.5°	50.2	51.3	58.2	64.0	83.0
75°	41.8	44.4	48.1	50.8	60.3
77.5°	33.8	37.0	38.6	39.7	40.2
80°	26.4	28.6	29.6	30.1	29.1
82.5°	19.6	21.2	21.7	21.7	20.1
85°	12.2	13.8	14.8	14.3	12.2
87.5°	5.8	7.9	8.5	7.4	5.8
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	11.67	13.17	12.04	13.49	13.80	15.70	17.20	16.06	17.51	17.83
	3H	13.26	14.60	13.64	14.93	15.29	17.09	18.43	17.46	18.76	19.12
	4H	13.90	15.16	14.30	15.51	15.89	17.49	18.75	17.89	19.10	19.48
	6H	14.41	15.58	14.82	15.94	16.34	17.70	18.86	18.11	19.23	19.62
	8H	14.59	15.70	15.02	16.09	16.49	17.76	18.86	18.18	19.25	19.66
	12H	14.72	15.78	15.15	16.16	16.59	17.79	18.85	18.22	19.23	19.66
4H	2H	12.44	13.70	12.84	14.05	14.43	15.83	17.09	16.23	17.44	17.82
	3H	14.23	15.27	14.64	15.67	16.07	17.40	18.45	17.81	18.85	19.25
	4H	14.99	15.94	15.43	16.35	16.79	17.91	18.85	18.34	19.27	19.71
	6H	15.63	16.45	16.09	16.89	17.36	18.24	19.05	18.69	19.50	19.96
	8H	15.86	16.63	16.33	17.07	17.54	18.33	19.10	18.80	19.54	20.01
	12H	16.04	16.72	16.52	17.20	17.67	18.41	19.09	18.89	19.57	20.04
8H	4H	15.38	16.14	15.84	16.59	17.05	18.01	18.77	18.47	19.22	19.69
	6H	16.15	16.79	16.65	17.28	17.76	18.43	19.06	18.93	19.55	20.03
	8H	16.47	17.04	16.99	17.55	18.04	18.59	19.16	19.10	19.67	20.15
	12H	16.73	17.24	17.24	17.73	18.29	18.73	19.23	19.24	19.72	20.29
12H	4H	15.42	16.10	15.90	16.58	17.05	18.01	18.69	18.49	19.17	19.64
	6H	16.23	16.80	16.74	17.31	17.80	18.44	19.01	18.95	19.52	20.01
	8H	16.61	17.12	17.12	17.61	18.17	18.65	19.15	19.16	19.64	20.21