

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P1062127

Luminaire Tested: S125RDR-H610D930-X4F0-XX-UDD-BVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1062127
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-48)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-H610D930-X4F0-XX-UDD-BVL-B
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE
LOUVER WITH DIFFUSER
HIGH PERFORMANCE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

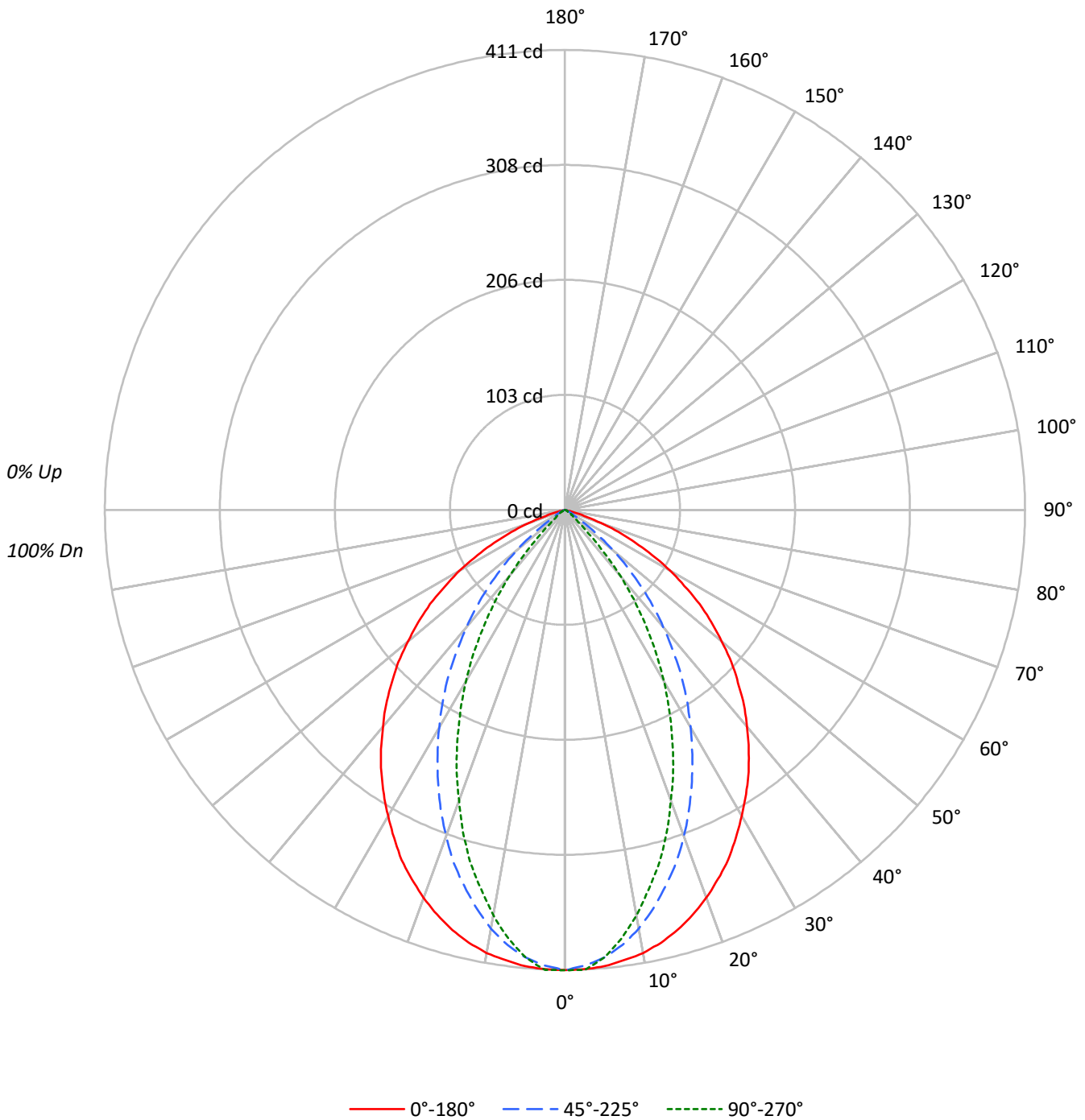
Lumens per Lamp: N/A
Luminaire Lumens: 531.5 lumens
Efficiency: N/A
Efficacy: 30.5 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 0.81 / 0.97
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 17.4
Input Voltage (V): 120
Input Current (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	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73
4	92	83	76	71	90	82	75	70	79	74	70	77	72	69	75	71	68	66
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60
6	81	70	63	58	79	69	62	57	67	61	57	66	61	57	65	60	56	54
7	76	65	58	53	74	64	57	52	63	56	52	61	56	52	60	55	51	50
8	71	60	53	48	70	59	53	48	58	52	48	57	52	48	56	51	47	46
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	53	47	44	42
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2833	2833	2833
5°	2829	2776	2776
10°	2812	2657	2573
15°	2770	2480	2325
20°	2704	2275	2024
25°	2622	2037	1724
30°	2512	1786	1406
35°	2405	1524	1054
40°	2273	1230	683
45°	2130	930	296
50°	1959	593	110
55°	1766	260	78
60°	1495	112	52
65°	1132	70	26
70°	688	32	10
75°	144	13	13
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2130 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.9	7.1
10°-20°	98.9	18.6
20°-30°	126.9	23.9
30°-40°	119.5	22.5
40°-50°	83.5	15.7
50°-60°	44.6	8.4
60°-70°	17.8	3.3
70°-80°	2.3	0.4
80°-90°	0.0	0.0
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°	263.7	49.6
0°-40°	383.2	72.1
0°-60°	511.4	96.2
0°-90°	531.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	531.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	411	411	411	411	411	
5°	409	408	402	403	402	39
15°	389	376	348	332	326	109
25°	345	315	268	239	227	158
35°	286	240	181	140	125	179
45°	219	164	96	46	30	169
55°	147	90	22	8	6	130
65°	70	28	4	2	2	69
75°	5	2	0	0	0	11
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	411.4	411.4	411.4	411.4	411.4
2.5°	410.9	411.4	407.6	410.9	411.4
5°	409.3	408.2	401.7	402.8	401.7
7.5°	406.0	403.3	392.4	388.6	386.5
10°	402.2	396.2	380.0	371.8	368.0
12.5°	396.2	387.6	364.8	352.3	346.8
15°	388.6	376.2	347.9	331.6	326.2
17.5°	379.4	363.1	330.6	310.5	302.3
20°	369.1	347.4	310.5	286.6	276.3
22.5°	357.2	332.2	289.9	263.3	252.9
25°	345.2	314.8	268.1	238.8	226.9
27.5°	330.6	296.9	246.4	214.9	201.9
30°	315.9	279.0	224.7	190.5	176.9
32.5°	301.2	260.0	203.0	165.0	151.4
35°	286.1	240.5	181.3	140.0	125.4
37.5°	269.8	220.9	158.0	116.2	101.0
40°	252.9	201.9	136.8	92.8	76.0
42.5°	236.7	182.9	115.6	70.0	51.6
45°	218.7	163.9	95.5	46.1	30.4
47.5°	201.9	145.5	74.9	26.6	15.7
50°	182.9	126.5	55.4	14.1	10.3
52.5°	165.0	108.0	36.9	9.2	8.1
55°	147.1	90.1	21.7	7.6	6.5
57.5°	126.5	72.7	11.9	6.0	4.9
60°	108.6	57.0	8.1	4.3	3.8
62.5°	87.9	41.8	6.0	3.3	2.7
65°	69.5	27.7	4.3	2.2	1.6
67.5°	51.6	16.3	2.7	1.1	1.1
70°	34.2	8.7	1.6	0.5	0.5
72.5°	17.9	3.8	1.1	0.5	0.5
75°	5.4	1.6	0.5	0.5	0.5
77.5°	0.0	0.5	0.0	0.0	0.5
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
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	12.56	13.82	12.93	14.14	14.45	0.00	0.00	0.00	0.00	0.00
	3H	13.15	14.26	13.53	14.59	14.95	0.00	0.00	0.00	0.00	0.00
	4H	13.11	14.14	13.51	14.49	14.88	0.00	0.00	0.00	0.00	0.00
	6H	13.02	13.97	13.44	14.34	14.73	0.00	0.00	0.00	0.00	0.00
	8H	12.98	13.87	13.41	14.26	14.67	0.00	0.00	0.00	0.00	0.00
	12H	12.93	13.78	13.36	14.17	14.60	0.00	0.00	0.00	0.00	0.00
4H	2H	12.33	13.37	12.74	13.72	14.10	0.00	0.00	0.00	0.00	0.00
	3H	12.93	13.76	13.34	14.17	14.57	0.00	0.00	0.00	0.00	0.00
	4H	12.88	13.62	13.31	14.04	14.48	0.00	0.00	0.00	0.00	0.00
	6H	12.79	13.43	13.25	13.87	14.34	0.00	0.00	0.00	0.00	0.00
	8H	12.73	13.32	13.20	13.77	14.24	0.00	0.00	0.00	0.00	0.00
	12H	12.68	13.20	13.17	13.68	14.16	0.00	0.00	0.00	0.00	0.00
8H	4H	12.73	13.32	13.20	13.77	14.24	0.00	0.00	0.00	0.00	0.00
	6H	12.62	13.10	13.13	13.60	14.08	0.00	0.00	0.00	0.00	0.00
	8H	12.56	12.99	13.08	13.50	14.00	0.00	0.00	0.00	0.00	0.00
	12H	12.51	12.89	13.02	13.38	13.96	0.00	0.00	0.00	0.00	0.00
12H	4H	12.68	13.20	13.17	13.68	14.16	0.00	0.00	0.00	0.00	0.00
	6H	12.55	12.99	13.08	13.50	14.00	0.00	0.00	0.00	0.00	0.00
	8H	12.51	12.89	13.02	13.38	13.96	0.00	0.00	0.00	0.00	0.00