

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: P1062073

Luminaire Tested: S125RDRP-H375D950-X4F0-XX-UDD-BVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1062073
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: S125RDRP-H375D950-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: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

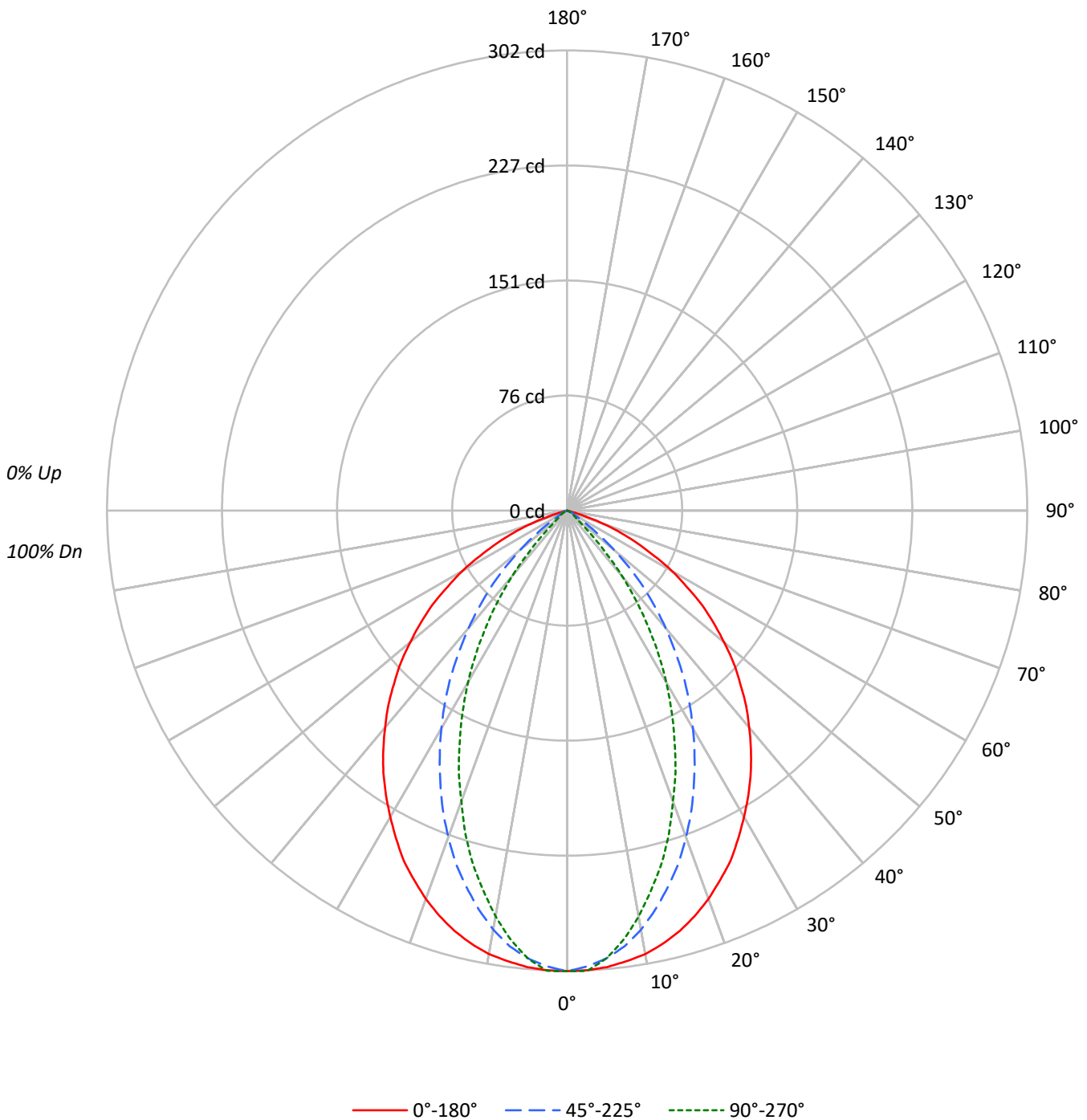
Lumens per Lamp: N/A
Luminaire Lumens: 390.6 lumens
Efficiency: N/A
Efficacy: 33.4 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 0.81 / 0.97
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
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	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	52	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°	2081	2081	2081
5°	2078	2040	2040
10°	2066	1952	1890
15°	2036	1822	1709
20°	1987	1671	1487
25°	1927	1497	1266
30°	1845	1313	1034
35°	1767	1120	774
40°	1671	903	502
45°	1565	684	217
50°	1440	436	81
55°	1298	192	58
60°	1099	83	39
65°	831	52	20
70°	505	24	8
75°	106	11	11
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1565 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.9	7.1
10°-20°	72.6	18.6
20°-30°	93.3	23.9
30°-40°	87.8	22.5
40°-50°	61.4	15.7
50°-60°	32.8	8.4
60°-70°	13.1	3.3
70°-80°	1.7	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°	193.8	49.6
0°-40°	281.6	72.1
0°-60°	375.8	96.2
0°-90°	390.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	390.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	302	302	302	302	302	
5°	301	300	295	296	295	29
15°	286	276	256	244	240	80
25°	254	231	197	176	167	116
35°	210	177	133	103	92	131
45°	161	120	70	34	22	124
55°	108	66	16	6	5	96
65°	51	20	3	2	1	51
75°	4	1	0	0	0	8
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°	302.3	302.3	302.3	302.3	302.3
2.5°	301.9	302.3	299.5	301.9	302.3
5°	300.7	299.9	295.1	295.9	295.1
7.5°	298.3	296.3	288.4	285.6	284.0
10°	295.5	291.1	279.2	273.2	270.4
12.5°	291.1	284.8	268.0	258.8	254.9
15°	285.6	276.4	255.6	243.7	239.7
17.5°	278.8	266.8	242.9	228.1	222.1
20°	271.2	255.2	228.1	210.6	203.0
22.5°	262.4	244.1	213.0	193.4	185.9
25°	253.7	231.3	197.0	175.5	166.7
27.5°	242.9	218.2	181.1	157.9	148.4
30°	232.1	205.0	165.1	140.0	130.0
32.5°	221.3	191.0	149.2	121.2	111.3
35°	210.2	176.7	133.2	102.9	92.1
37.5°	198.2	162.3	116.1	85.3	74.2
40°	185.9	148.4	100.5	68.2	55.8
42.5°	173.9	134.4	85.0	51.4	37.9
45°	160.7	120.4	70.2	33.9	22.3
47.5°	148.4	106.9	55.0	19.5	11.6
50°	134.4	92.9	40.7	10.4	7.6
52.5°	121.2	79.4	27.1	6.8	6.0
55°	108.1	66.2	16.0	5.6	4.8
57.5°	92.9	53.4	8.8	4.4	3.6
60°	79.8	41.9	6.0	3.2	2.8
62.5°	64.6	30.7	4.4	2.4	2.0
65°	51.0	20.3	3.2	1.6	1.2
67.5°	37.9	12.0	2.0	0.8	0.8
70°	25.1	6.4	1.2	0.4	0.4
72.5°	13.2	2.8	0.8	0.4	0.4
75°	4.0	1.2	0.4	0.4	0.4
77.5°	0.0	0.4	0.0	0.0	0.4
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	11.49	12.75	11.85	13.06	13.38	0.00	0.00	0.00	0.00	0.00
	3H	12.07	13.18	12.45	13.52	13.88	0.00	0.00	0.00	0.00	0.00
	4H	12.04	13.07	12.44	13.42	13.80	0.00	0.00	0.00	0.00	0.00
	6H	11.95	12.90	12.37	13.27	13.66	0.00	0.00	0.00	0.00	0.00
	8H	11.90	12.80	12.34	13.19	13.60	0.00	0.00	0.00	0.00	0.00
	12H	11.86	12.71	12.29	13.09	13.53	0.00	0.00	0.00	0.00	0.00
4H	2H	11.26	12.29	11.66	12.64	13.03	0.00	0.00	0.00	0.00	0.00
	3H	11.85	12.69	12.27	13.09	13.50	0.00	0.00	0.00	0.00	0.00
	4H	11.80	12.55	12.24	12.97	13.41	0.00	0.00	0.00	0.00	0.00
	6H	11.72	12.35	12.18	12.80	13.27	0.00	0.00	0.00	0.00	0.00
	8H	11.66	12.25	12.13	12.70	13.17	0.00	0.00	0.00	0.00	0.00
	12H	11.61	12.13	12.09	12.61	13.09	0.00	0.00	0.00	0.00	0.00
8H	4H	11.66	12.25	12.13	12.70	13.17	0.00	0.00	0.00	0.00	0.00
	6H	11.55	12.03	12.05	12.53	13.01	0.00	0.00	0.00	0.00	0.00
	8H	11.48	11.91	12.01	12.43	12.93	0.00	0.00	0.00	0.00	0.00
	12H	11.43	11.81	11.95	12.31	12.88	0.00	0.00	0.00	0.00	0.00
12H	4H	11.61	12.13	12.09	12.61	13.09	0.00	0.00	0.00	0.00	0.00
	6H	11.48	11.91	12.01	12.43	12.93	0.00	0.00	0.00	0.00	0.00
	8H	11.43	11.81	11.95	12.31	12.88	0.00	0.00	0.00	0.00	0.00