

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: P1062047

Luminaire Tested: S125RDR-H375D930-X4F0-XX-UDD-BVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1062047
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-87)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-H375D930-X4F0-XX-UDD-BVL-S
Description: DEFINE 5 SILVER 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

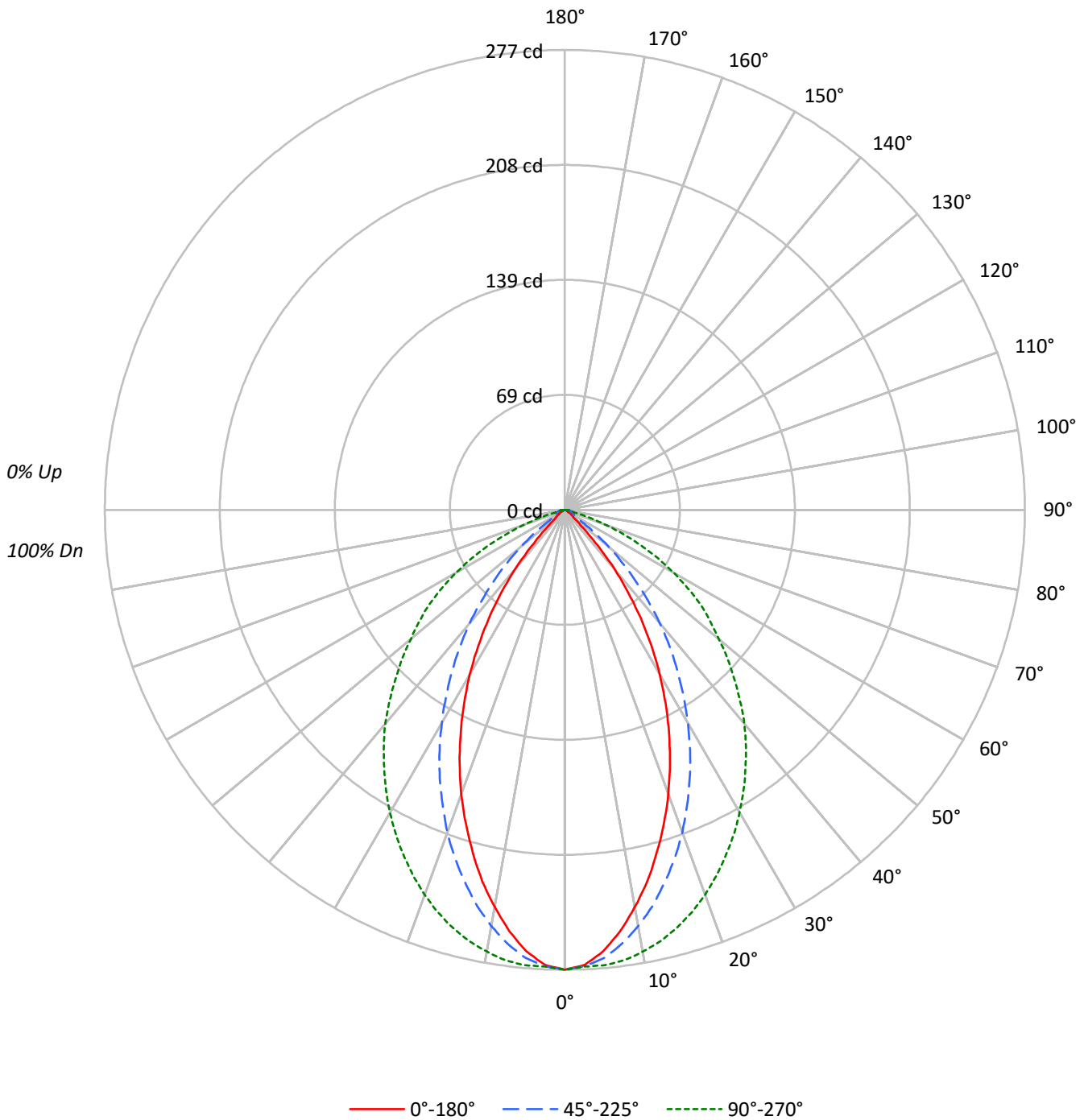
Lumens per Lamp: N/A
Luminaire Lumens: 356.3 lumens
Efficiency: N/A
Efficacy: 30.5 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.14 / 0.98
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
Input Voltage (V): 120
Input Current (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	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54
7	75	64	57	52	74	63	56	52	62	56	51	61	55	51	59	54	51	49
8	71	60	52	47	69	59	52	47	58	52	47	57	51	47	55	50	47	45
9	67	55	48	44	66	55	48	44	54	48	44	53	47	43	52	47	43	42
10	63	52	45	41	62	51	45	40	50	44	40	50	44	40	49	44	40	39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1907	1907	1907
5°	1844	1872	1903
10°	1698	1779	1889
15°	1525	1656	1858
20°	1335	1515	1808
25°	1127	1353	1744
30°	909	1177	1674
35°	668	992	1594
40°	417	800	1512
45°	156	584	1405
50°	73	365	1297
55°	53	151	1200
60°	37	80	1038
65°	23	94	823
70°	20	111	521
75°	27	109	162
80°	40	135	123
85°	79	213	158

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 1405 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.4	7.1
10°-20°	65.8	18.5
20°-30°	83.8	23.5
30°-40°	78.0	21.9
40°-50°	53.4	15.0
50°-60°	29.4	8.3
60°-70°	13.9	3.9
70°-80°	4.4	1.2
80°-90°	2.2	0.6
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°	174.9	49.1
0°-40°	252.9	71.0
0°-60°	335.7	94.2
0°-90°	356.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	356.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	277	277	277	277	277	
5°	267	270	271	273	275	25
15°	214	221	232	250	261	60
25°	148	158	178	207	230	68
35°	80	91	118	157	190	49
45°	16	27	60	106	144	15
55°	4	5	13	59	100	4
65°	1	2	6	22	50	2
75°	1	2	4	4	6	1
85°	1	2	3	2	2	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	277.0	277.0	277.0	277.0	277.0
2.5°	274.3	277.0	275.0	275.0	275.3
5°	266.8	270.2	270.9	272.9	275.3
7.5°	255.9	260.3	263.7	269.5	273.6
10°	242.9	248.4	254.5	264.1	270.2
12.5°	229.3	235.1	244.3	257.6	266.1
15°	213.9	220.7	232.3	249.7	260.6
17.5°	198.2	205.7	220.0	240.5	254.2
20°	182.2	190.0	206.7	229.6	246.7
22.5°	165.5	174.0	192.4	218.3	238.5
25°	148.4	157.6	178.1	206.7	229.6
27.5°	131.3	140.9	163.4	194.8	220.4
30°	114.3	124.2	148.1	182.5	210.5
32.5°	96.9	107.8	133.0	170.2	200.3
35°	79.5	90.7	118.0	156.9	189.7
37.5°	62.4	74.0	103.4	144.3	179.1
40°	46.4	58.0	89.0	131.7	168.2
42.5°	30.0	42.3	74.0	118.7	156.2
45°	16.0	27.0	60.0	106.4	144.3
47.5°	8.5	14.3	46.7	94.2	133.0
50°	6.8	7.8	34.1	81.9	121.1
52.5°	5.5	6.1	21.8	69.3	110.5
55°	4.4	5.1	12.6	59.4	100.0
57.5°	3.4	4.1	7.2	49.5	87.7
60°	2.7	3.1	5.8	39.6	75.4
62.5°	1.7	2.4	5.8	30.7	63.1
65°	1.4	1.7	5.8	21.8	50.5
67.5°	1.4	1.4	5.8	14.3	37.9
70°	1.0	1.0	5.5	9.2	25.9
72.5°	1.0	1.0	4.8	6.1	15.0
75°	1.0	1.7	4.1	4.4	6.1
77.5°	1.0	2.7	3.8	3.8	3.4
80°	1.0	2.7	3.4	3.1	3.1
82.5°	1.0	2.7	2.7	2.7	2.4
85°	1.0	2.4	2.7	2.4	2.0
87.5°	1.0	2.4	2.4	2.4	1.4
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	0.00	0.00	0.00	0.00	0.00	11.29	12.58	11.66	12.89	13.21
	3H	0.00	0.00	0.00	0.00	0.00	12.08	13.22	12.46	13.55	13.91
	4H	0.00	0.00	0.00	0.00	0.00	12.10	13.16	12.51	13.51	13.90
	6H	0.00	0.00	0.00	0.00	0.00	12.06	13.03	12.48	13.40	13.80
	8H	0.00	0.00	0.00	0.00	0.00	12.04	12.96	12.47	13.35	13.75
	12H	0.00	0.00	0.00	0.00	0.00	12.02	12.90	12.45	13.28	13.71
4H	2H	0.00	0.00	0.00	0.00	0.00	11.08	12.13	11.48	12.48	12.87
	3H	0.00	0.00	0.00	0.00	0.00	11.90	12.76	12.32	13.17	13.57
	4H	0.00	0.00	0.00	0.00	0.00	11.94	12.71	12.37	13.13	13.57
	6H	0.00	0.00	0.00	0.00	0.00	11.92	12.59	12.39	13.03	13.50
	8H	0.00	0.00	0.00	0.00	0.26	11.91	12.53	12.38	12.97	13.45
	12H	0.00	0.01	0.00	0.49	0.97	11.91	12.45	12.40	12.94	13.41
8H	4H	0.00	0.00	0.00	0.00	0.13	11.82	12.44	12.29	12.89	13.36
	6H	0.30	0.81	0.80	1.30	1.78	11.82	12.33	12.33	12.83	13.31
	8H	1.24	1.69	1.76	2.21	2.70	11.83	12.28	12.35	12.80	13.29
	12H	2.17	2.57	2.69	3.07	3.64	11.87	12.28	12.39	12.77	13.34
12H	4H	0.00	0.00	0.00	0.00	0.39	11.78	12.33	12.27	12.81	13.28
	6H	0.76	1.21	1.28	1.73	2.22	11.78	12.23	12.30	12.75	13.24
	8H	1.88	2.28	2.39	2.77	3.34	11.82	12.22	12.33	12.71	13.29