

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: P1062059

Luminaire Tested: S125RDR-H375D935-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1062059
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-86)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-H375D935-X4F0-XX-UDD-SVL-S
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
HIGH PERFORMANCE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

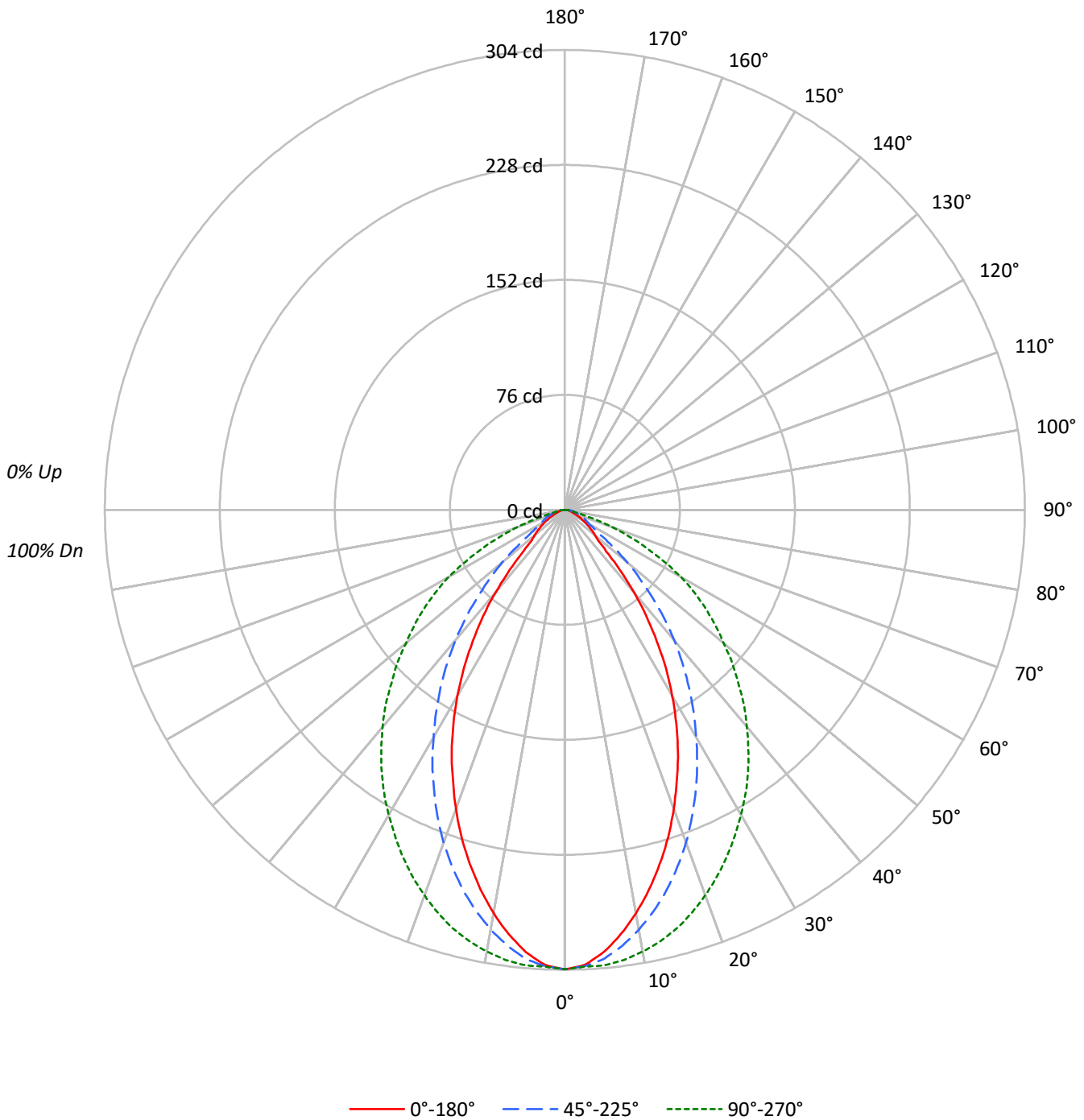
Lumens per Lamp: N/A
Luminaire Lumens: 438.5 lumens
Efficiency: N/A
Efficacy: 37.5 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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	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	111	108	104	101	109	106	103	100	101	99	97	98	96	94	94	93	91	89				
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79				
3	96	88	81	76	94	87	80	76	84	79	74	81	77	73	79	75	72	70				
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	63				
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	56				
6	78	67	60	54	77	66	59	54	65	58	53	63	57	53	62	57	53	51				
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46				
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42				
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39				
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	47	41	38	36				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2091	2091	2091
5°	2029	2059	2089
10°	1894	1969	2073
15°	1728	1854	2041
20°	1542	1715	1987
25°	1344	1554	1924
30°	1128	1380	1850
35°	890	1202	1774
40°	638	1010	1683
45°	375	793	1578
50°	277	571	1466
55°	234	346	1362
60°	189	253	1216
65°	147	241	974
70°	123	225	660
75°	114	202	287
80°	115	198	186
85°	142	253	197

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 1578 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.0	6.4
10°-20°	73.5	16.8
20°-30°	96.1	21.9
30°-40°	93.5	21.3
40°-50°	69.9	15.9
50°-60°	43.3	9.9
60°-70°	22.8	5.2
70°-80°	8.3	1.9
80°-90°	3.1	0.7
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°	197.5	45.1
0°-40°	291.0	66.4
0°-60°	404.3	92.2
0°-90°	438.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	438.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	304	304	304	304	304	
5°	294	298	298	300	302	27
15°	242	250	260	276	286	68
25°	177	186	205	232	253	81
35°	106	117	143	181	211	66
45°	38	50	81	127	162	32
55°	20	20	29	75	114	18
65°	9	10	15	32	60	9
75°	4	5	8	8	11	5
85°	2	3	3	3	2	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	303.7	303.7	303.7	303.7	303.7
2.5°	301.1	303.7	301.9	301.9	302.2
5°	293.6	297.5	297.9	299.7	302.2
7.5°	283.1	287.8	290.7	296.1	300.1
10°	270.9	276.3	281.7	290.7	296.5
12.5°	257.2	263.7	271.6	283.9	292.1
15°	242.4	249.6	260.1	275.9	286.4
17.5°	226.9	234.5	247.5	266.6	279.2
20°	210.4	218.7	234.1	255.8	271.2
22.5°	193.4	202.8	219.7	244.2	262.6
25°	176.9	185.9	204.6	232.3	253.2
27.5°	159.6	168.9	189.5	220.1	243.1
30°	141.9	152.0	173.6	207.5	232.7
32.5°	124.3	134.7	158.1	194.5	222.3
35°	105.9	117.4	143.0	181.2	211.1
37.5°	88.6	100.9	127.5	167.5	199.2
40°	71.0	83.6	112.4	154.2	187.3
42.5°	53.7	66.6	96.9	140.5	175.4
45°	38.5	50.4	81.4	127.2	162.1
47.5°	29.5	36.4	67.0	113.5	150.2
50°	25.9	28.1	53.3	100.1	136.9
52.5°	22.7	24.1	39.6	87.2	125.4
55°	19.5	20.5	28.8	74.9	113.5
57.5°	16.6	17.7	22.0	63.8	101.2
60°	13.7	14.8	18.4	52.6	88.3
62.5°	11.5	11.9	16.6	42.1	73.8
65°	9.0	9.7	14.8	31.7	59.8
67.5°	7.6	7.9	13.0	22.7	46.1
70°	6.1	6.5	11.2	15.8	32.8
72.5°	5.4	5.4	9.4	11.5	20.9
75°	4.3	5.0	7.6	8.3	10.8
77.5°	3.6	5.0	6.5	6.1	5.8
80°	2.9	4.7	5.0	5.0	4.7
82.5°	2.5	4.0	4.3	4.0	3.6
85°	1.8	3.2	3.2	3.2	2.5
87.5°	1.4	2.9	2.5	2.5	1.8
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	2.37	3.72	2.73	4.03	4.34	12.06	13.41	12.42	13.72	14.03
	3H	3.20	4.40	3.58	4.73	5.09	12.97	14.17	13.35	14.50	14.86
	4H	3.56	4.67	3.96	5.02	5.41	13.07	14.18	13.47	14.53	14.92
	6H	3.93	4.96	4.34	5.33	5.72	13.05	14.08	13.47	14.45	14.84
	8H	4.11	5.08	4.54	5.47	5.88	13.04	14.01	13.47	14.40	14.81
	12H	4.27	5.20	4.70	5.58	6.01	13.03	13.96	13.46	14.34	14.77
4H	2H	3.20	4.31	3.60	4.66	5.05	11.91	13.02	12.31	13.37	13.76
	3H	4.25	5.16	4.66	5.57	5.97	12.90	13.81	13.31	14.21	14.62
	4H	4.70	5.52	5.13	5.93	6.38	13.02	13.84	13.46	14.26	14.70
	6H	5.25	5.96	5.72	6.41	6.87	13.06	13.76	13.52	14.21	14.67
	8H	5.51	6.17	5.98	6.62	7.09	13.06	13.72	13.53	14.16	14.63
	12H	5.75	6.34	6.24	6.82	7.29	13.06	13.65	13.55	14.13	14.60
8H	4H	5.25	5.91	5.72	6.36	6.83	12.95	13.61	13.42	14.05	14.53
	6H	6.03	6.57	6.53	7.06	7.54	13.01	13.55	13.51	14.04	14.52
	8H	6.45	6.93	6.97	7.45	7.94	13.04	13.52	13.56	14.04	14.53
	12H	6.86	7.29	7.37	7.78	8.35	13.09	13.52	13.60	14.01	14.58
12H	4H	5.31	5.90	5.80	6.38	6.85	12.91	13.50	13.40	13.98	14.45
	6H	6.17	6.65	6.69	7.17	7.66	12.97	13.46	13.49	13.97	14.46
	8H	6.70	7.13	7.21	7.62	8.19	13.04	13.47	13.55	13.96	14.53