

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: P1062062

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1062062
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-85)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-H375D935-X4F0-XX-UDD-WVL-S
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER
HIGH PERFORMANCE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

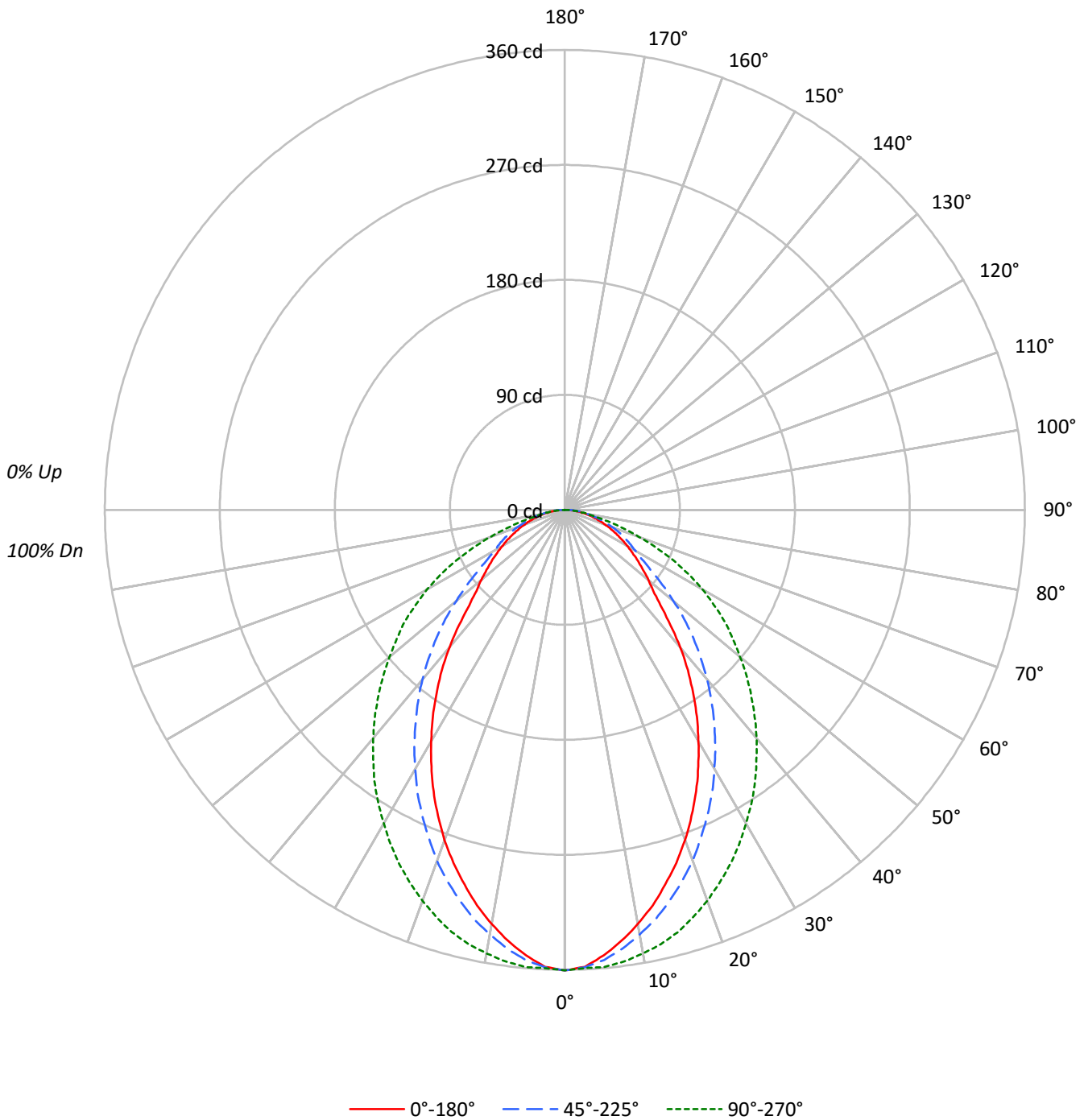
Lumens per Lamp: N/A
Luminaire Lumens: 675.8 lumens
Efficiency: N/A
Efficacy: 57.8 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2482	2482	2482
5°	2419	2444	2482
10°	2302	2359	2465
15°	2164	2259	2439
20°	2016	2142	2386
25°	1847	2006	2325
30°	1663	1861	2253
35°	1471	1710	2183
40°	1263	1557	2098
45°	1031	1386	2010
50°	915	1188	1917
55°	839	986	1838
60°	774	873	1710
65°	722	839	1525
70°	674	797	1246
75°	622	748	920
80°	587	698	670
85°	537	679	569

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 2010 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.4	4.9
10°-20°	89.9	13.3
20°-30°	123.5	18.3
30°-40°	130.9	19.4
40°-50°	114.3	16.9
50°-60°	86.8	12.8
60°-70°	58.2	8.6
70°-80°	30.0	4.4
80°-90°	9.0	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°	246.7	36.5
0°-40°	377.6	55.9
0°-60°	578.7	85.6
0°-90°	675.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	675.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	360	360	360	360	360	
5°	350	354	354	356	359	33
15°	304	309	317	331	342	85
25°	243	251	264	286	306	111
35°	175	185	204	232	260	109
45°	106	116	142	176	206	84
55°	70	72	82	121	153	63
65°	44	45	52	69	94	44
75°	23	25	28	30	35	25
85°	7	9	9	8	7	8
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	360.5	360.5	360.5	360.5	360.5
2.5°	358.0	360.5	358.3	358.3	359.1
5°	350.0	353.6	353.6	356.2	359.1
7.5°	340.3	344.3	346.4	352.2	356.5
10°	329.2	333.5	337.4	346.1	352.6
12.5°	317.3	322.0	328.1	339.2	348.2
15°	303.6	309.4	316.9	331.0	342.1
17.5°	289.9	295.7	305.0	321.6	334.2
20°	275.1	281.3	292.4	310.4	325.6
22.5°	259.3	266.1	278.0	298.5	316.2
25°	243.1	250.7	264.0	285.9	306.1
27.5°	226.2	235.2	249.6	273.0	295.3
30°	209.2	218.2	234.1	259.7	283.4
32.5°	192.3	202.0	219.3	246.3	271.9
35°	175.0	185.1	203.5	232.3	259.7
37.5°	158.1	168.2	188.7	218.6	246.3
40°	140.5	150.9	173.2	204.6	233.4
42.5°	122.4	133.6	157.7	190.1	220.0
45°	105.9	116.3	142.3	176.1	206.4
47.5°	93.6	100.5	126.8	161.7	193.0
50°	85.4	89.0	110.9	147.7	179.0
52.5°	77.1	79.9	96.2	133.2	165.7
55°	69.9	72.0	82.1	120.6	153.1
57.5°	62.7	64.8	71.3	108.0	138.3
60°	56.2	58.0	63.4	94.7	124.2
62.5°	50.1	51.5	57.3	82.1	109.1
65°	44.3	45.4	51.5	68.8	93.6
67.5°	38.5	39.6	45.7	56.2	77.1
70°	33.5	33.9	39.6	45.7	61.9
72.5°	28.5	28.8	33.5	37.1	47.5
75°	23.4	24.8	28.1	29.9	34.6
77.5°	19.1	20.9	22.7	23.4	23.4
80°	14.8	16.9	17.6	17.6	16.9
82.5°	10.8	12.6	13.0	12.2	11.5
85°	6.8	8.6	8.6	7.9	7.2
87.5°	3.2	4.7	4.7	4.3	3.2
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	9.76	11.26	10.13	11.57	11.89	13.69	15.19	14.06	15.50	15.82
	3H	11.34	12.68	11.71	13.01	13.37	15.11	16.46	15.49	16.78	17.15
	4H	11.95	13.21	12.35	13.56	13.94	15.53	16.79	15.93	17.14	17.52
	6H	12.45	13.61	12.86	13.97	14.37	15.75	16.91	16.16	17.27	17.67
	8H	12.62	13.73	13.05	14.12	14.52	15.80	16.91	16.23	17.30	17.70
	12H	12.74	13.80	13.17	14.18	14.61	15.84	16.90	16.27	17.28	17.71
4H	2H	10.50	11.76	10.90	12.11	12.49	13.82	15.08	14.22	15.43	15.80
	3H	12.28	13.33	12.69	13.73	14.13	15.43	16.47	15.84	16.87	17.27
	4H	13.02	13.96	13.45	14.37	14.81	15.95	16.90	16.39	17.31	17.75
	6H	13.65	14.47	14.11	14.91	15.37	16.30	17.11	16.75	17.56	18.02
	8H	13.88	14.65	14.34	15.09	15.56	16.40	17.16	16.86	17.60	18.07
	12H	14.05	14.74	14.54	15.21	15.69	16.47	17.15	16.95	17.63	18.10
8H	4H	13.42	14.18	13.88	14.63	15.09	16.06	16.83	16.53	17.27	17.74
	6H	14.20	14.83	14.70	15.33	15.80	16.50	17.13	17.00	17.62	18.10
	8H	14.53	15.09	15.04	15.60	16.09	16.66	17.22	17.17	17.73	18.22
	12H	14.80	15.30	15.31	15.79	16.36	16.79	17.29	17.30	17.79	18.35
12H	4H	13.46	14.14	13.94	14.62	15.09	16.06	16.74	16.54	17.22	17.69
	6H	14.29	14.85	14.80	15.36	15.85	16.52	17.08	17.03	17.59	18.08
	8H	14.68	15.18	15.19	15.67	16.24	16.72	17.22	17.23	17.72	18.28