

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: P1062008

Luminaire Tested: S125RDRP-H375D830-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1062008
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: S125RDRP-H375D830-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: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

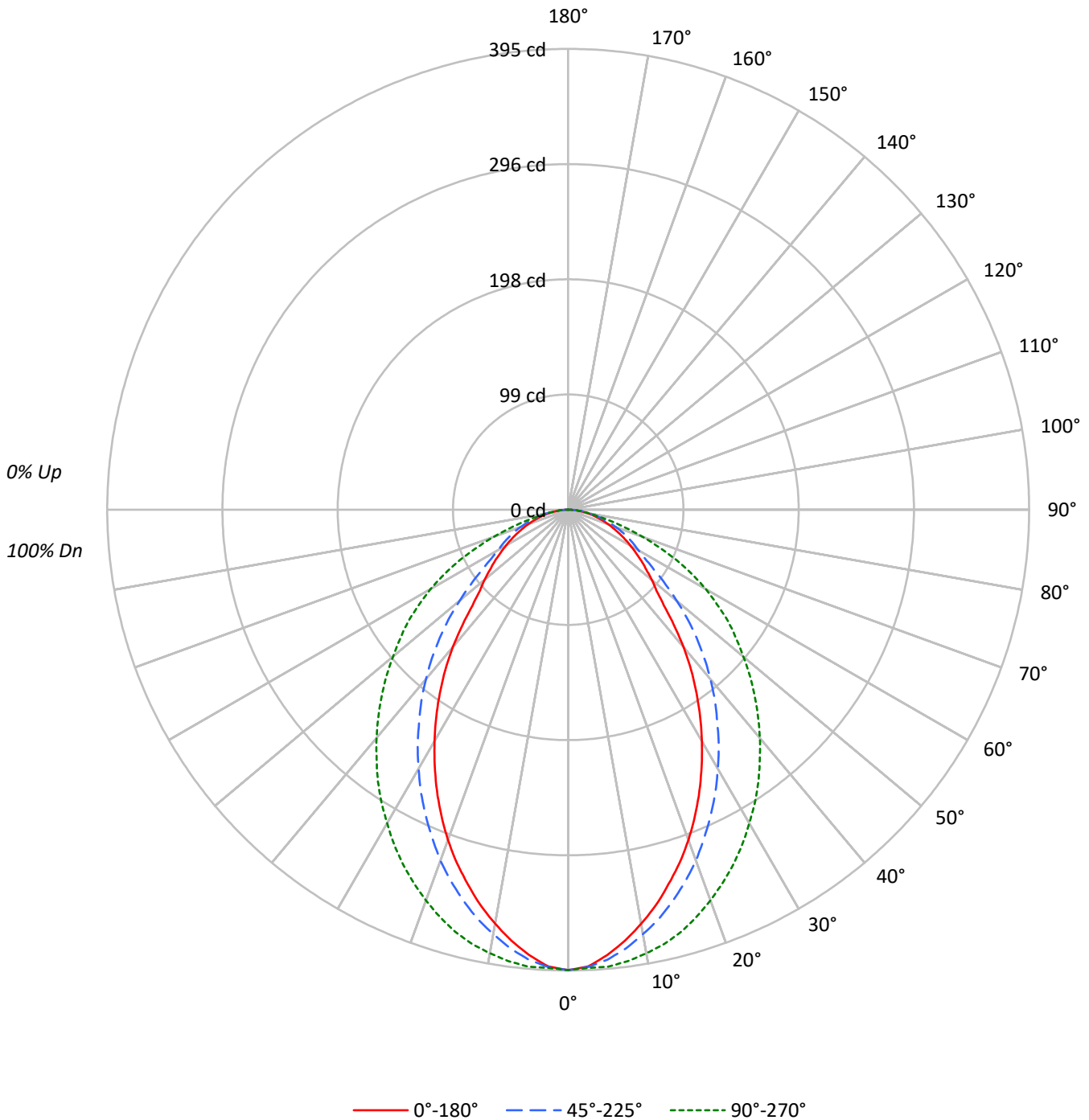
Lumens per Lamp: N/A
Luminaire Lumens: 739.8 lumens
Efficiency: N/A
Efficacy: 63.2 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
Input Voltage (V): 120
Input Current (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

TEST NUMBER: P1062008

CATALOG NUMBER: S125RDRP-H375D830-X4F0-XX-UDD-WVL-S

Luminous Intensity Polar Plot





TEST NUMBER: P1062008

CATALOG NUMBER: S125RDRP-H375D830-X4F0-XX-UDD-WVL-S

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	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°	2717	2717	2717
5°	2649	2675	2717
10°	2519	2583	2699
15°	2369	2473	2669
20°	2207	2345	2611
25°	2022	2196	2546
30°	1821	2038	2467
35°	1610	1872	2389
40°	1382	1704	2296
45°	1129	1516	2200
50°	1000	1300	2098
55°	918	1079	2012
60°	847	956	1873
65°	790	919	1670
70°	739	874	1365
75°	681	819	1006
80°	642	765	734
85°	592	750	624

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 2200 cd/sqm



TEST NUMBER: P1062008

CATALOG NUMBER: S125RDRP-H375D830-X4F0-XX-UDD-WVL-S

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.5	4.9
10°-20°	98.4	13.3
20°-30°	135.2	18.3
30°-40°	143.3	19.4
40°-50°	125.1	16.9
50°-60°	95.0	12.8
60°-70°	63.7	8.6
70°-80°	32.8	4.4
80°-90°	9.8	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°	270.1	36.5
0°-40°	413.4	55.9
0°-60°	633.5	85.6
0°-90°	739.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	739.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	395	395	395	395	395	
5°	383	387	387	390	393	36
15°	332	339	347	362	374	93
25°	266	274	289	313	335	122
35°	192	203	223	254	284	119
45°	116	127	156	193	226	92
55°	76	79	90	132	168	69
65°	48	50	56	75	102	48
75°	26	27	31	33	38	27
85°	8	10	10	9	8	8
90°	0	0	0	0	0	



TEST NUMBER: P1062008

CATALOG NUMBER: S125RDRP-H375D830-X4F0-XX-UDD-WVL-S

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	394.6	394.6	394.6	394.6	394.6
2.5°	391.9	394.6	392.3	392.3	393.1
5°	383.2	387.1	387.1	389.9	393.1
7.5°	372.6	376.9	379.3	385.6	390.3
10°	360.3	365.1	369.4	378.9	386.0
12.5°	347.3	352.4	359.2	371.4	381.2
15°	332.3	338.7	346.9	362.3	374.5
17.5°	317.4	323.7	333.9	352.1	365.9
20°	301.2	307.9	320.1	339.8	356.4
22.5°	283.9	291.3	304.4	326.8	346.1
25°	266.1	274.4	289.0	313.0	335.1
27.5°	247.6	257.4	273.2	298.8	323.3
30°	229.1	238.9	256.3	284.2	310.3
32.5°	210.5	221.2	240.1	269.7	297.7
35°	191.6	202.6	222.7	254.3	284.2
37.5°	173.1	184.1	206.6	239.3	269.7
40°	153.8	165.2	189.6	223.9	255.5
42.5°	134.0	146.3	172.7	208.2	240.9
45°	115.9	127.3	155.7	192.8	225.9
47.5°	102.5	110.0	138.8	177.0	211.3
50°	93.4	97.4	121.4	161.6	195.9
52.5°	84.4	87.5	105.3	145.9	181.4
55°	76.5	78.8	89.9	132.1	167.6
57.5°	68.6	71.0	78.1	118.3	151.4
60°	61.5	63.5	69.4	103.7	136.0
62.5°	54.8	56.4	62.7	89.9	119.5
65°	48.5	49.7	56.4	75.3	102.5
67.5°	42.2	43.4	50.1	61.5	84.4
70°	36.7	37.1	43.4	50.1	67.8
72.5°	31.1	31.5	36.7	40.6	52.0
75°	25.6	27.2	30.8	32.7	37.8
77.5°	20.9	22.9	24.8	25.6	25.6
80°	16.2	18.5	19.3	19.3	18.5
82.5°	11.8	13.8	14.2	13.4	12.6
85°	7.5	9.5	9.5	8.7	7.9
87.5°	3.5	5.1	5.1	4.7	3.5
90°	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P1062008
 CATALOG NUMBER: S125RDRP-H375D830-X4F0-XX-UDD-WVL-S

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	10.08	11.58	10.45	11.89	12.21	14.01	15.51	14.37	15.82	16.13
	3H	11.66	13.00	12.03	13.33	13.69	15.43	16.77	15.81	17.10	17.46
	4H	12.27	13.53	12.67	13.87	14.25	15.84	17.10	16.24	17.45	17.83
	6H	12.76	13.92	13.17	14.29	14.68	16.06	17.22	16.47	17.59	17.98
	8H	12.94	14.04	13.36	14.43	14.83	16.12	17.23	16.55	17.62	18.02
	12H	13.06	14.12	13.49	14.50	14.93	16.15	17.21	16.58	17.59	18.02
4H	2H	10.82	12.08	11.22	12.43	12.81	14.13	15.39	14.53	15.74	16.12
	3H	12.60	13.64	13.01	14.04	14.45	15.74	16.79	16.16	17.19	17.59
	4H	13.33	14.27	13.77	14.69	15.13	16.27	17.21	16.70	17.63	18.07
	6H	13.97	14.79	14.43	15.23	15.69	16.61	17.43	17.07	17.87	18.33
	8H	14.20	14.96	14.66	15.41	15.87	16.71	17.48	17.18	17.92	18.39
	12H	14.37	15.05	14.85	15.53	16.00	16.78	17.47	17.27	17.95	18.42
8H	4H	13.73	14.50	14.20	14.94	15.41	16.38	17.14	16.84	17.59	18.05
	6H	14.52	15.15	15.02	15.64	16.12	16.82	17.45	17.31	17.94	18.42
	8H	14.84	15.41	15.36	15.92	16.41	16.97	17.54	17.49	18.05	18.54
	12H	15.12	15.62	15.63	16.11	16.68	17.11	17.61	17.62	18.10	18.67
12H	4H	13.78	14.46	14.26	14.94	15.41	16.38	17.06	16.86	17.54	18.01
	6H	14.60	15.17	15.12	15.68	16.17	16.83	17.40	17.35	17.91	18.40
	8H	15.00	15.50	15.51	15.99	16.56	17.04	17.54	17.55	18.03	18.60