

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: P1062080

Luminaire Tested: S125RDR-H375D950-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1062080
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-H375D950-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: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

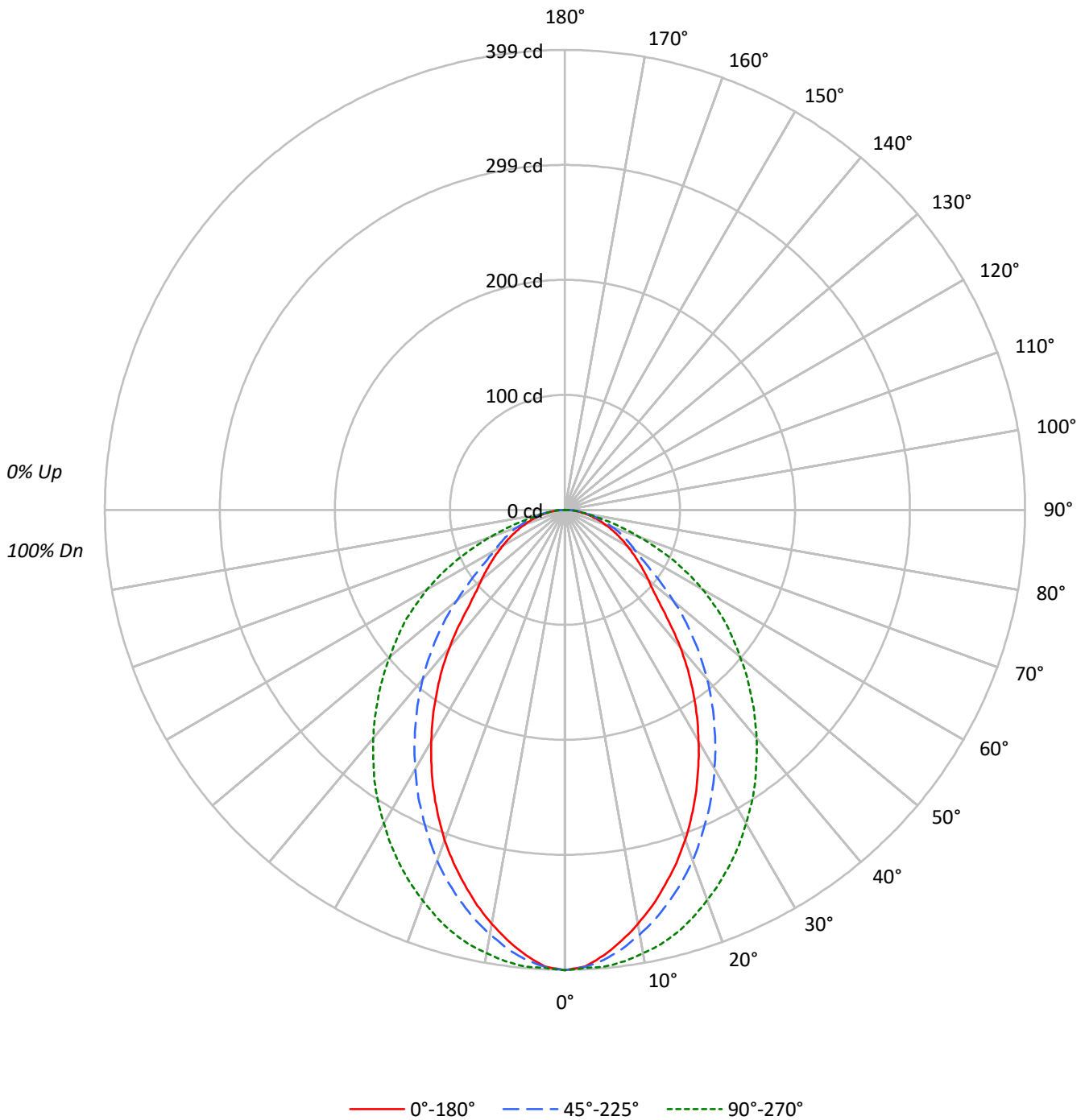
Lumens per Lamp: N/A
Luminaire Lumens: 748.8 lumens
Efficiency: N/A
Efficacy: 64.0 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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					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	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°	2750	2750	2750
5°	2681	2708	2749
10°	2550	2614	2732
15°	2398	2503	2702
20°	2234	2374	2643
25°	2046	2222	2577
30°	1843	2062	2496
35°	1630	1895	2418
40°	1399	1725	2324
45°	1142	1535	2226
50°	1013	1316	2124
55°	929	1092	2036
60°	857	967	1896
65°	800	930	1689
70°	747	884	1381
75°	689	827	1019
80°	650	777	745
85°	600	758	632

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 2226 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.0	4.9
10°-20°	99.6	13.3
20°-30°	136.8	18.3
30°-40°	145.0	19.4
40°-50°	126.6	16.9
50°-60°	96.2	12.8
60°-70°	64.4	8.6
70°-80°	33.2	4.4
80°-90°	10.0	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°	273.4	36.5
0°-40°	418.4	55.9
0°-60°	641.2	85.6
0°-90°	748.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	748.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	399	399	399	399	399	
5°	388	392	392	395	398	36
15°	336	343	351	367	379	94
25°	269	278	292	317	339	123
35°	194	205	226	257	288	121
45°	117	129	158	195	229	93
55°	77	80	91	134	170	69
65°	49	50	57	76	104	49
75°	26	28	31	33	38	28
85°	8	10	10	9	8	9
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	399.4	399.4	399.4	399.4	399.4
2.5°	396.6	399.4	397.0	397.0	397.8
5°	387.9	391.8	391.8	394.6	397.8
7.5°	377.1	381.5	383.9	390.3	395.0
10°	364.7	369.5	373.9	383.5	390.7
12.5°	351.5	356.7	363.5	375.9	385.9
15°	336.4	342.8	351.1	366.7	379.1
17.5°	321.2	327.6	338.0	356.3	370.3
20°	304.9	311.6	324.0	344.0	360.7
22.5°	287.3	294.9	308.1	330.8	350.3
25°	269.3	277.7	292.5	316.8	339.2
27.5°	250.6	260.6	276.5	302.5	327.2
30°	231.8	241.8	259.4	287.7	314.0
32.5°	213.1	223.9	243.0	272.9	301.3
35°	193.9	205.1	225.5	257.4	287.7
37.5°	175.2	186.3	209.1	242.2	272.9
40°	155.6	167.2	191.9	226.6	258.6
42.5°	135.7	148.0	174.8	210.7	243.8
45°	117.3	128.9	157.6	195.1	228.6
47.5°	103.7	111.3	140.5	179.2	213.9
50°	94.6	98.6	122.9	163.6	198.3
52.5°	85.4	88.6	106.5	147.6	183.6
55°	77.4	79.8	91.0	133.7	169.6
57.5°	69.4	71.8	79.0	119.7	153.2
60°	62.2	64.2	70.2	104.9	137.7
62.5°	55.5	57.1	63.4	91.0	120.9
65°	49.1	50.3	57.1	76.2	103.7
67.5°	42.7	43.9	50.7	62.2	85.4
70°	37.1	37.5	43.9	50.7	68.6
72.5°	31.5	31.9	37.1	41.1	52.7
75°	25.9	27.5	31.1	33.1	38.3
77.5°	21.1	23.1	25.1	25.9	25.9
80°	16.4	18.8	19.6	19.6	18.8
82.5°	12.0	14.0	14.4	13.6	12.8
85°	7.6	9.6	9.6	8.8	8.0
87.5°	3.6	5.2	5.2	4.8	3.6
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	10.12	11.62	10.48	11.93	12.24	14.05	15.55	14.41	15.86	16.17
	3H	11.69	13.03	12.07	13.36	13.72	15.47	16.81	15.85	17.14	17.50
	4H	12.30	13.56	12.70	13.91	14.29	15.88	17.14	16.29	17.49	17.87
	6H	12.80	13.96	13.21	14.33	14.72	16.10	17.26	16.51	17.63	18.02
	8H	12.97	14.08	13.40	14.47	14.87	16.16	17.27	16.59	17.66	18.06
	12H	13.10	14.16	13.53	14.54	14.97	16.20	17.25	16.63	17.64	18.07
4H	2H	10.86	12.12	11.26	12.47	12.84	14.18	15.43	14.58	15.78	16.16
	3H	12.64	13.68	13.05	14.08	14.48	15.78	16.83	16.20	17.23	17.63
	4H	13.37	14.31	13.80	14.73	15.17	16.31	17.25	16.74	17.67	18.11
	6H	14.01	14.82	14.46	15.27	15.73	16.65	17.47	17.11	17.92	18.38
	8H	14.24	15.00	14.70	15.45	15.91	16.75	17.52	17.22	17.96	18.43
	12H	14.41	15.09	14.89	15.57	16.04	16.83	17.51	17.31	17.99	18.46
8H	4H	13.77	14.54	14.23	14.98	15.45	16.42	17.18	16.88	17.63	18.09
	6H	14.56	15.19	15.06	15.68	16.16	16.86	17.49	17.35	17.98	18.46
	8H	14.88	15.45	15.40	15.96	16.45	17.02	17.58	17.53	18.09	18.58
	12H	15.16	15.66	15.67	16.15	16.72	17.15	17.65	17.66	18.15	18.71
12H	4H	13.82	14.50	14.30	14.98	15.45	16.42	17.10	16.90	17.58	18.05
	6H	14.64	15.21	15.16	15.72	16.21	16.87	17.44	17.39	17.95	18.44
	8H	15.04	15.54	15.55	16.03	16.60	17.08	17.58	17.59	18.08	18.64