

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: P1062053

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1062053
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-H375D930-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, 90 CRI LEDS
Ballast/Driver: -

Summary

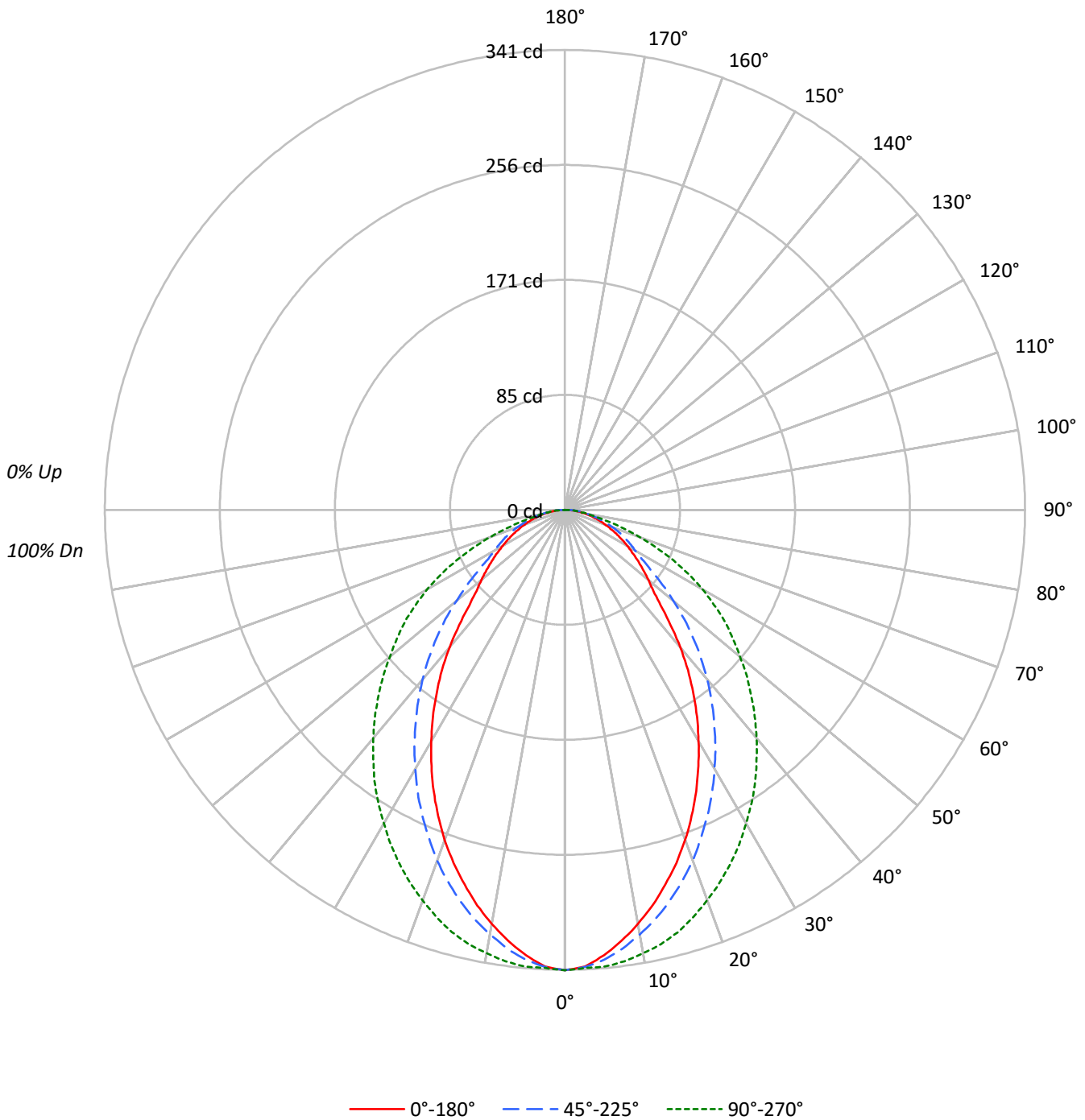
Lumens per Lamp: N/A
Luminaire Lumens: 639.9 lumens
Efficiency: N/A
Efficacy: 54.7 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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°	2351	2351	2351
5°	2291	2315	2350
10°	2179	2234	2334
15°	2049	2139	2310
20°	1909	2029	2259
25°	1749	1899	2202
30°	1575	1763	2134
35°	1393	1620	2067
40°	1195	1474	1986
45°	977	1312	1903
50°	865	1125	1816
55°	795	934	1739
60°	733	826	1621
65°	683	795	1445
70°	638	755	1182
75°	591	708	870
80°	555	662	634
85°	513	648	537

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 1903 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.6	4.9
10°-20°	85.1	13.3
20°-30°	116.9	18.3
30°-40°	124.0	19.4
40°-50°	108.2	16.9
50°-60°	82.2	12.8
60°-70°	55.1	8.6
70°-80°	28.4	4.4
80°-90°	8.5	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°	233.6	36.5
0°-40°	357.6	55.9
0°-60°	548.0	85.6
0°-90°	639.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	639.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	341	341	341	341	341	
5°	332	335	335	337	340	31
15°	288	293	300	313	324	81
25°	230	237	250	271	290	106
35°	166	175	193	220	246	103
45°	100	110	135	167	195	79
55°	66	68	78	114	145	59
65°	42	43	49	65	89	42
75°	22	24	27	28	33	24
85°	6	8	8	8	7	7
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	341.4	341.4	341.4	341.4	341.4
2.5°	339.0	341.4	339.3	339.3	340.0
5°	331.5	334.9	334.9	337.3	340.0
7.5°	322.3	326.0	328.1	333.5	337.6
10°	311.7	315.8	319.5	327.7	333.9
12.5°	300.4	304.9	310.7	321.2	329.8
15°	287.5	292.9	300.1	313.4	324.0
17.5°	274.5	280.0	288.8	304.5	316.5
20°	260.5	266.3	276.9	294.0	308.3
22.5°	245.5	252.0	263.3	282.7	299.4
25°	230.2	237.3	250.0	270.8	289.9
27.5°	214.2	222.7	236.3	258.5	279.6
30°	198.1	206.7	221.7	245.9	268.4
32.5°	182.1	191.3	207.7	233.3	257.5
35°	165.7	175.3	192.7	220.0	245.9
37.5°	149.7	159.3	178.7	207.0	233.3
40°	133.0	142.9	164.0	193.7	221.0
42.5°	115.9	126.5	149.4	180.1	208.4
45°	100.3	110.1	134.7	166.8	195.4
47.5°	88.7	95.1	120.0	153.1	182.8
50°	80.8	84.2	105.0	139.8	169.5
52.5°	73.0	75.7	91.1	126.2	156.9
55°	66.2	68.2	77.8	114.2	144.9
57.5°	59.3	61.4	67.5	102.3	131.0
60°	53.2	54.9	60.0	89.7	117.7
62.5°	47.4	48.8	54.2	77.8	103.3
65°	41.9	43.0	48.8	65.1	88.7
67.5°	36.5	37.5	43.3	53.2	73.0
70°	31.7	32.1	37.5	43.3	58.7
72.5°	26.9	27.3	31.7	35.1	45.0
75°	22.2	23.5	26.6	28.3	32.7
77.5°	18.1	19.8	21.5	22.2	22.2
80°	14.0	16.0	16.7	16.7	16.0
82.5°	10.2	11.9	12.3	11.6	10.9
85°	6.5	8.2	8.2	7.5	6.8
87.5°	3.1	4.4	4.4	4.1	3.1
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	9.58	11.07	9.94	11.39	11.70	13.50	15.00	13.87	15.31	15.63
	3H	11.15	12.49	11.53	12.82	13.18	14.93	16.27	15.30	16.60	16.96
	4H	11.76	13.02	12.16	13.37	13.75	15.34	16.60	15.74	16.95	17.33
	6H	12.26	13.42	12.67	13.79	14.18	15.56	16.72	15.97	17.09	17.48
	8H	12.43	13.54	12.86	13.93	14.33	15.62	16.72	16.04	17.11	17.51
	12H	12.55	13.61	12.98	13.99	14.42	15.65	16.71	16.08	17.09	17.52
4H	2H	10.31	11.57	10.71	11.92	12.30	13.63	14.89	14.03	15.24	15.62
	3H	12.09	13.14	12.50	13.54	13.94	15.24	16.28	15.65	16.68	17.09
	4H	12.83	13.77	13.26	14.18	14.62	15.77	16.71	16.20	17.12	17.56
	6H	13.46	14.28	13.92	14.73	15.19	16.11	16.93	16.57	17.37	17.83
	8H	13.69	14.46	14.16	14.90	15.37	16.21	16.97	16.67	17.42	17.88
	12H	13.87	14.55	14.35	15.03	15.50	16.28	16.96	16.76	17.44	17.91
8H	4H	13.23	13.99	13.69	14.44	14.91	15.87	16.64	16.34	17.08	17.55
	6H	14.02	14.65	14.51	15.14	15.62	16.31	16.94	16.81	17.44	17.91
	8H	14.34	14.90	14.85	15.41	15.90	16.47	17.04	16.98	17.55	18.04
	12H	14.61	15.11	15.12	15.61	16.17	16.61	17.11	17.12	17.60	18.16
12H	4H	13.27	13.96	13.76	14.43	14.91	15.87	16.56	16.36	17.03	17.51
	6H	14.10	14.67	14.61	15.18	15.66	16.33	16.90	16.84	17.41	17.89
	8H	14.49	14.99	15.00	15.49	16.05	16.54	17.04	17.05	17.53	18.10