

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: P1061963

Luminaire Tested: S125RDR-H1270D927-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061963
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-H1270D927-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: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

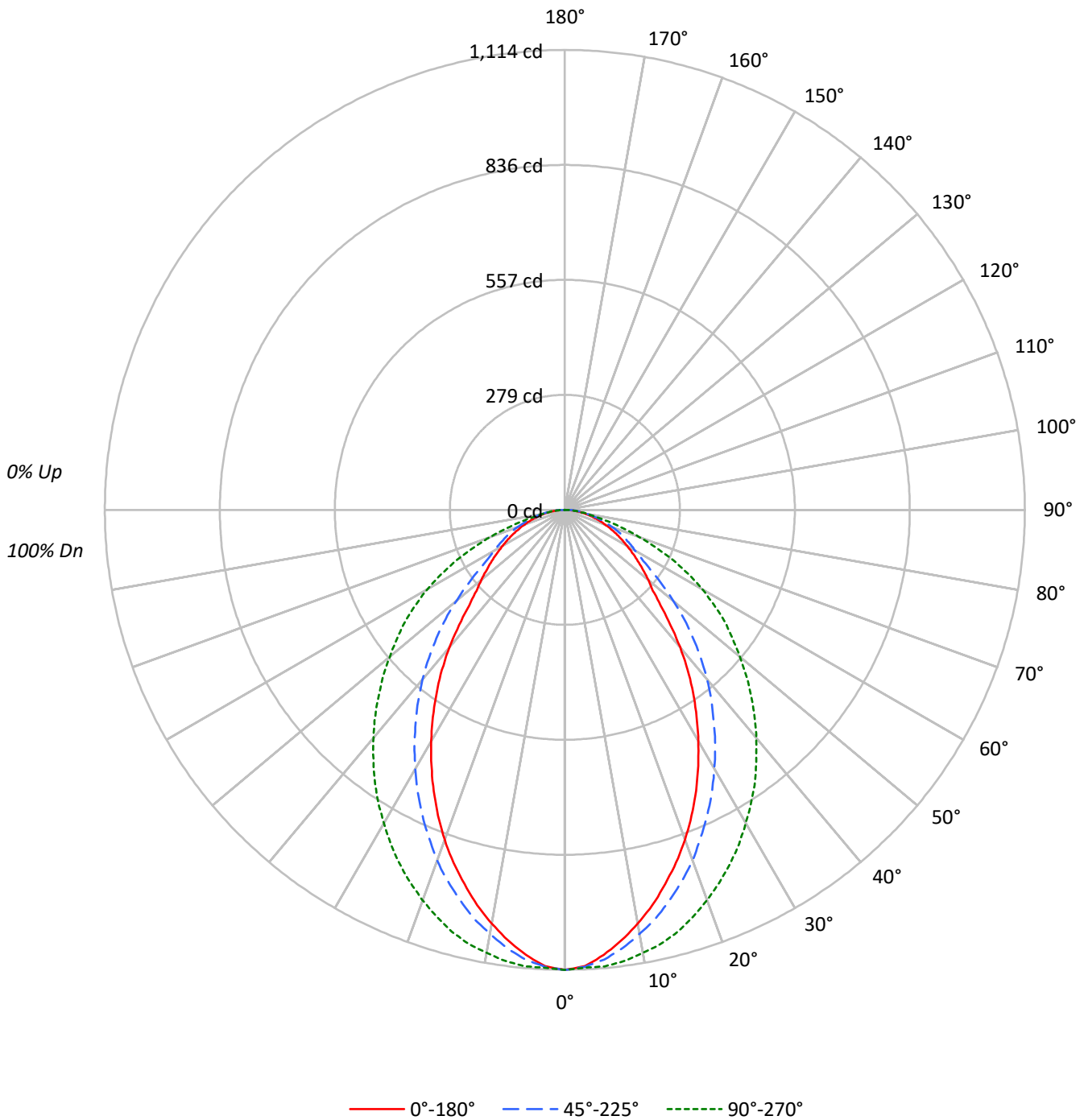
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2089.2 lumens
Efficiency: N/A
Efficacy: 57.2 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): 36.5
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°	7673	7673	7673
5°	7480	7556	7672
10°	7115	7293	7620
15°	6690	6983	7539
20°	6232	6624	7374
25°	5709	6200	7189
30°	5142	5754	6966
35°	4548	5287	6747
40°	3903	4813	6484
45°	3187	4282	6211
50°	2827	3673	5927
55°	2593	3047	5680
60°	2392	2698	5289
65°	2230	2594	4716
70°	2084	2466	3855
75°	1926	2309	2844
80°	1808	2165	2074
85°	1675	2109	1762

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 6211 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.1	4.9
10°-20°	277.8	13.3
20°-30°	381.8	18.3
30°-40°	404.6	19.4
40°-50°	353.2	16.9
50°-60°	268.3	12.8
60°-70°	179.8	8.6
70°-80°	92.7	4.4
80°-90°	27.8	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°	762.7	36.5
0°-40°	1167.4	55.9
0°-60°	1788.9	85.6
0°-90°	2089.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2089.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1114	1114	1114	1114	1114	
5°	1082	1093	1093	1101	1110	101
15°	938	956	980	1023	1058	263
25°	752	775	816	884	946	344
35°	541	572	629	718	803	337
45°	327	360	440	544	638	258
55°	216	223	254	373	473	194
65°	137	140	159	213	290	136
75°	72	77	87	92	107	78
85°	21	27	27	24	22	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1114.4	1114.4	1114.4	1114.4	1114.4
2.5°	1106.6	1114.4	1107.8	1107.8	1110.0
5°	1082.2	1093.3	1093.3	1101.1	1110.0
7.5°	1052.1	1064.3	1071.0	1088.8	1102.2
10°	1017.6	1030.9	1043.2	1069.9	1089.9
12.5°	980.8	995.3	1014.2	1048.8	1076.6
15°	938.5	956.3	979.7	1023.1	1057.7
17.5°	896.2	914.0	943.0	994.2	1033.2
20°	850.6	869.5	904.0	959.7	1006.4
22.5°	801.6	822.7	859.5	922.9	977.5
25°	751.5	774.9	816.1	884.0	946.3
27.5°	699.2	727.0	771.5	843.9	912.9
30°	646.8	674.7	723.7	802.7	876.2
32.5°	594.5	624.6	678.0	761.5	840.6
35°	541.1	572.2	629.0	718.1	802.7
37.5°	488.7	519.9	583.4	675.8	761.5
40°	434.2	466.5	535.5	632.4	721.4
42.5°	378.5	413.0	487.6	587.8	680.2
45°	327.3	359.6	439.8	544.4	637.9
47.5°	289.5	310.6	391.9	499.9	596.7
50°	263.9	275.0	342.9	456.5	553.3
52.5°	238.3	247.2	297.3	411.9	512.1
55°	216.0	222.7	253.8	373.0	473.2
57.5°	193.7	200.4	220.4	334.0	427.5
60°	173.7	179.2	195.9	292.8	384.1
62.5°	154.8	159.2	177.0	253.8	337.3
65°	136.9	140.3	159.2	212.6	289.5
67.5°	119.1	122.5	141.4	173.7	238.3
70°	103.5	104.7	122.5	141.4	191.5
72.5°	88.0	89.1	103.5	114.7	147.0
75°	72.4	76.8	86.8	92.4	106.9
77.5°	59.0	64.6	70.1	72.4	72.4
80°	45.6	52.3	54.6	54.6	52.3
82.5°	33.4	39.0	40.1	37.9	35.6
85°	21.2	26.7	26.7	24.5	22.3
87.5°	10.0	14.5	14.5	13.4	10.0
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	13.69	15.18	14.05	15.50	15.81	17.61	19.11	17.98	19.42	19.74
	3H	15.26	16.60	15.64	16.93	17.29	19.04	20.38	19.41	20.71	21.07
	4H	15.87	17.13	16.27	17.48	17.86	19.45	20.71	19.85	21.06	21.44
	6H	16.37	17.53	16.78	17.90	18.29	19.67	20.83	20.08	21.20	21.59
	8H	16.54	17.65	16.97	18.04	18.44	19.73	20.83	20.15	21.22	21.62
	12H	16.66	17.72	17.09	18.10	18.53	19.76	20.82	20.19	21.20	21.63
4H	2H	14.42	15.68	14.82	16.03	16.41	17.74	19.00	18.14	19.35	19.73
	3H	16.20	17.25	16.61	17.65	18.05	19.35	20.40	19.76	20.80	21.20
	4H	16.94	17.88	17.37	18.30	18.73	19.88	20.82	20.31	21.23	21.67
	6H	17.57	18.39	18.03	18.84	19.30	20.22	21.04	20.68	21.48	21.94
	8H	17.80	18.57	18.27	19.01	19.48	20.32	21.08	20.78	21.53	22.00
	12H	17.98	18.66	18.46	19.14	19.61	20.39	21.08	20.88	21.55	22.03
8H	4H	17.34	18.10	17.80	18.55	19.02	19.98	20.75	20.45	21.19	21.66
	6H	18.13	18.76	18.62	19.25	19.73	20.42	21.05	20.92	21.55	22.02
	8H	18.45	19.02	18.96	19.53	20.01	20.58	21.15	21.10	21.66	22.15
	12H	18.72	19.23	19.23	19.72	20.28	20.72	21.22	21.23	21.71	22.28
12H	4H	17.38	18.07	17.87	18.54	19.02	19.98	20.67	20.47	21.15	21.62
	6H	18.21	18.78	18.72	19.29	19.77	20.44	21.01	20.95	21.52	22.01
	8H	18.60	19.11	19.11	19.60	20.16	20.65	21.15	21.16	21.64	22.21