

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: P1175405

Luminaire Tested: S125RDRP-H1270D927-X4F0-XX-UDD-WVL-W

Issue Date: 8/18/2025

Test Information

Test Method: LM-79-2024
Report Number: P1175405
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-82)
Test Lab: INNOVATION CENTER
Issue Date: 8/18/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-H1270D927-X4F0-XX-UDD-WVL-W
Description: DEFINE 5 WHITE 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

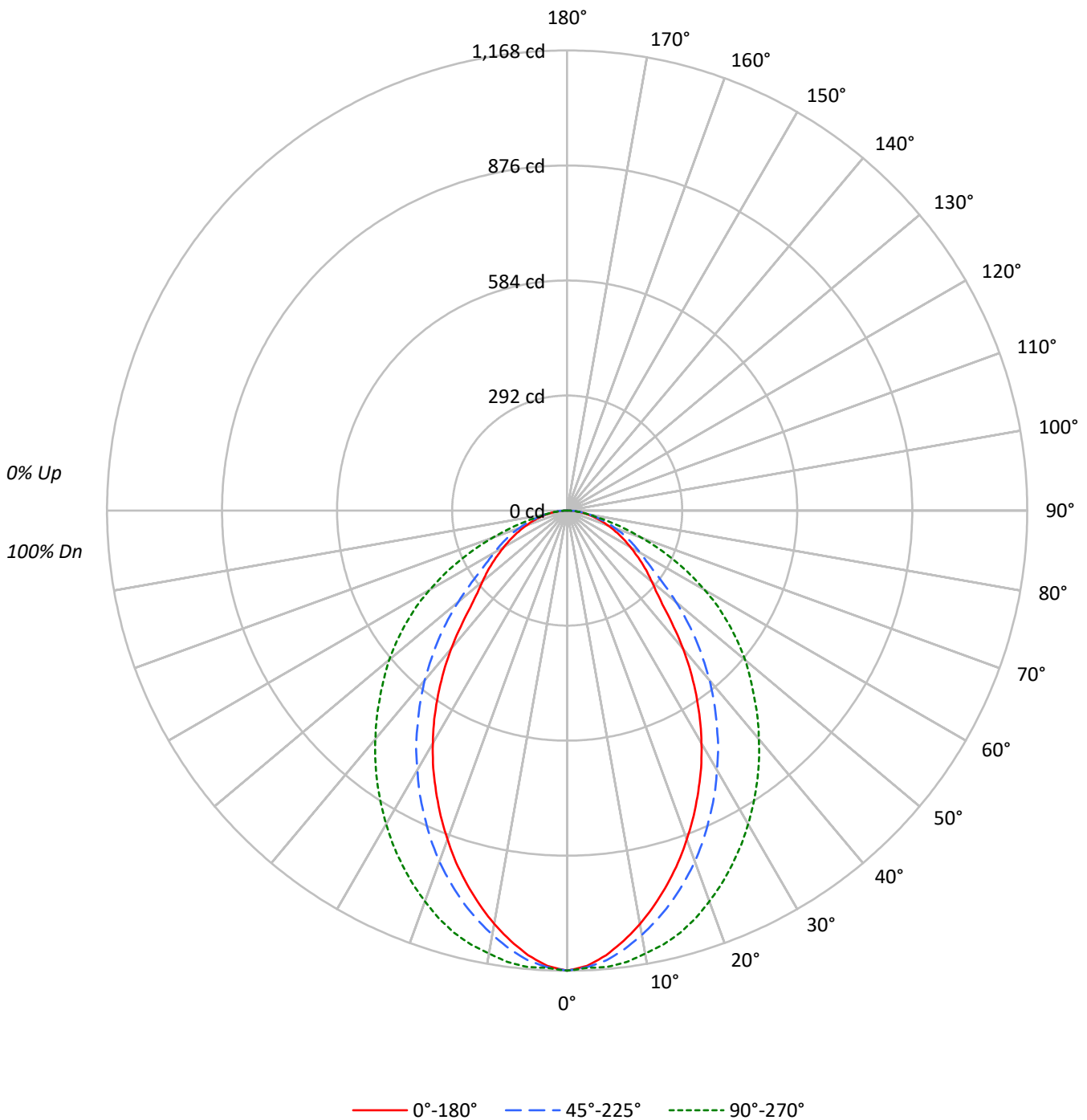
Lumens per Lamp: N/A
Luminaire Lumens: 2199.9 lumens
Efficiency: N/A
Efficacy: 60.3 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 36.5
Input Voltage (V): 120
Input Current (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

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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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					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	73	69	77	72	68	74	70	66					64				
4	86	75	67	61	84	74	66	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	47	59	52	47	58	51	47	56	51	46					44				
7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42					40				
8	65	52	44	39	63	51	44	39	50	43	38	49	43	38	48	42	38					36				
9	61	48	40	35	59	48	40	35	46	40	35	45	39	35	44	39	35					33				
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32					30				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8040	8040	8040
5°	7831	7920	8037
10°	7450	7644	7984
15°	7003	7321	7907
20°	6508	6944	7735
25°	5980	6507	7531
30°	5422	6045	7306
35°	4799	5558	7066
40°	4117	5052	6807
45°	3378	4498	6544
50°	3005	3865	6318
55°	2773	3236	5997
60°	2553	2948	5555
65°	2374	2778	4909
70°	2214	2595	4010
75°	2083	2400	3006
80°	1967	2201	2161
85°	1801	2196	1801

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 6544 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.1	4.9
10°-20°	291.4	13.2
20°-30°	400.9	18.2
30°-40°	425.2	19.3
40°-50°	372.1	16.9
50°-60°	285.6	13.0
60°-70°	190.2	8.6
70°-80°	97.5	4.4
80°-90°	29.0	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°	800.4	36.4
0°-40°	1225.5	55.7
0°-60°	1883.2	85.6
0°-90°	2199.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2199.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1168	1168	1168	1168	1168	
5°	1133	1148	1146	1154	1163	106
15°	982	1005	1027	1076	1109	275
25°	787	814	856	929	991	361
35°	571	598	661	758	841	356
45°	347	376	462	577	672	274
55°	231	236	270	400	500	207
65°	146	147	170	224	301	145
75°	78	83	90	95	113	83
85°	23	26	28	27	23	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1167.7	1167.7	1167.7	1167.7	1167.7
2.5°	1156.8	1168.7	1159.8	1160.8	1161.8
5°	1133.0	1147.9	1145.9	1153.8	1162.8
7.5°	1101.3	1117.2	1122.1	1141.9	1155.8
10°	1065.6	1083.5	1093.4	1123.1	1141.9
12.5°	1025.0	1045.8	1061.7	1100.3	1128.1
15°	982.4	1005.2	1027.0	1075.5	1109.2
17.5°	936.8	959.6	988.3	1043.8	1084.5
20°	888.2	913.0	947.7	1007.1	1055.7
22.5°	838.6	864.4	904.0	969.5	1025.0
25°	787.1	813.8	856.5	928.8	991.3
27.5°	736.5	761.3	810.9	888.2	956.6
30°	682.0	707.8	760.3	845.6	918.9
32.5°	627.5	653.2	713.7	802.9	880.3
35°	571.0	597.7	661.2	758.3	840.6
37.5°	514.5	542.2	612.6	712.7	800.0
40°	458.0	487.7	562.1	667.1	757.3
42.5°	400.5	432.2	510.5	622.5	715.7
45°	346.9	375.7	461.9	576.9	672.1
47.5°	308.3	325.1	410.4	530.3	630.5
50°	280.5	288.5	360.8	485.7	589.8
52.5°	255.7	260.7	312.3	444.1	545.2
55°	231.0	235.9	269.6	400.5	499.6
57.5°	207.2	210.2	237.9	356.9	454.0
60°	185.4	187.4	214.1	313.2	403.4
62.5°	165.5	166.5	191.3	268.6	352.9
65°	145.7	146.7	170.5	224.0	301.3
67.5°	127.9	127.9	150.7	183.4	251.8
70°	110.0	110.0	128.9	148.7	199.2
72.5°	94.2	96.2	109.0	119.9	155.6
75°	78.3	83.3	90.2	95.2	113.0
77.5°	63.4	69.4	72.4	74.3	75.3
80°	49.6	53.5	55.5	56.5	54.5
82.5°	36.7	39.7	40.6	40.6	37.7
85°	22.8	25.8	27.8	26.8	22.8
87.5°	10.9	14.9	15.9	13.9	10.9
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	13.86	15.36	14.22	15.67	15.99	17.88	19.38	18.25	19.70	20.01
	3H	15.45	16.79	15.82	17.12	17.48	19.27	20.61	19.65	20.94	21.30
	4H	16.09	17.35	16.49	17.70	18.08	19.68	20.94	20.08	21.29	21.66
	6H	16.60	17.76	17.01	18.13	18.52	19.88	21.05	20.29	21.41	21.80
	8H	16.78	17.89	17.21	18.28	18.68	19.94	21.05	20.37	21.44	21.84
	12H	16.90	17.97	17.34	18.35	18.78	19.97	21.03	20.40	21.41	21.84
4H	2H	14.63	15.89	15.03	16.24	16.62	18.01	19.27	18.41	19.62	20.00
	3H	16.41	17.46	16.82	17.86	18.26	19.58	20.63	19.99	21.03	21.43
	4H	17.18	18.12	17.61	18.54	18.97	20.09	21.03	20.52	21.45	21.89
	6H	17.82	18.64	18.28	19.08	19.54	20.42	21.24	20.88	21.68	22.14
	8H	18.05	18.81	18.51	19.26	19.72	20.52	21.28	20.98	21.73	22.19
	12H	18.22	18.90	18.70	19.38	19.85	20.59	21.27	21.07	21.75	22.22
8H	4H	17.56	18.33	18.03	18.77	19.24	20.19	20.96	20.66	21.40	21.87
	6H	18.34	18.97	18.84	19.46	19.94	20.61	21.24	21.11	21.73	22.21
	8H	18.66	19.22	19.17	19.73	20.22	20.77	21.34	21.28	21.85	22.34
	12H	18.92	19.42	19.43	19.91	20.48	20.91	21.41	21.42	21.90	22.47
12H	4H	17.60	18.28	18.08	18.76	19.23	20.19	20.87	20.67	21.35	21.82
	6H	18.41	18.98	18.93	19.49	19.98	20.62	21.19	21.14	21.70	22.19
	8H	18.80	19.30	19.31	19.79	20.36	20.83	21.33	21.34	21.83	22.39