

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: P1061976

Luminaire Tested: S125RDRP-H1270D935-X4F0-XX-UDD-BVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061976
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-84)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-H1270D935-X4F0-XX-UDD-BVL-W
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE
LOUVER WITH DIFFUSER
HIGH PERFORMANCE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

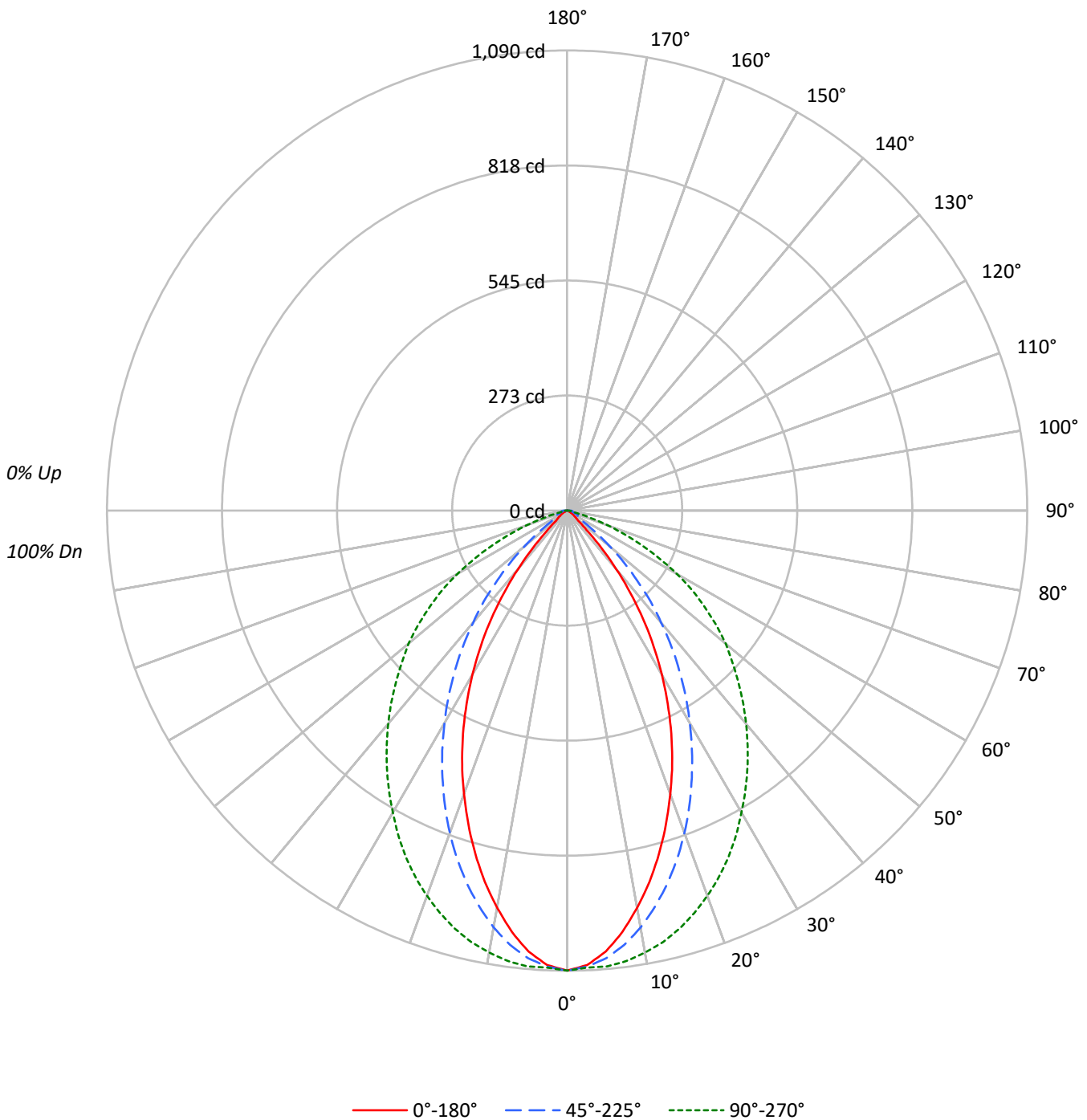
Lumens per Lamp: N/A
Luminaire Lumens: 1409.8 lumens
Efficiency: N/A
Efficacy: 38.6 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.14 / 0.98
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90					90			
2	104	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80					80			
3	98	89	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72					72			
4	91	82	75	70	89	81	74	69	78	73	68	76	71	67	74	70	67	65					65			
5	85	75	68	63	83	74	67	62	72	66	62	70	65	61	69	64	60	59					59			
6	80	69	62	57	78	68	61	56	67	60	56	65	60	56	64	59	55	53					53			
7	75	64	57	52	74	63	56	51	62	56	51	60	55	51	59	54	50	49					49			
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	46	45					45			
9	67	55	48	44	65	55	48	44	54	48	43	53	47	43	52	47	43	41					41			
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	44	40	38					38			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7502	7502	7502
5°	7247	7355	7489
10°	6678	7009	7432
15°	5998	6524	7310
20°	5234	5953	7115
25°	4434	5307	6871
30°	3562	4620	6565
35°	2636	3898	6259
40°	1632	3113	5930
45°	637	2276	5576
50°	298	1427	5252
55°	218	610	4767
60°	150	434	4135
65°	99	453	3214
70°	97	415	2023
75°	128	418	644
80°	190	480	432
85°	284	956	671

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5576 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.9	7.1
10°-20°	258.9	18.4
20°-30°	329.8	23.4
30°-40°	306.9	21.8
40°-50°	211.3	15.0
50°-60°	119.6	8.5
60°-70°	56.5	4.0
70°-80°	17.6	1.3
80°-90°	9.2	0.7
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°	688.6	48.8
0°-40°	995.5	70.6
0°-60°	1326.4	94.1
0°-90°	1409.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1409.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1090	1090	1090	1090	1090	
5°	1048	1063	1064	1074	1084	97
15°	841	869	915	984	1026	234
25°	584	621	699	816	904	266
35°	314	357	464	622	745	194
45°	65	104	234	422	573	61
55°	18	21	51	243	397	17
65°	6	7	28	87	197	7
75°	5	11	16	17	24	5
85°	4	10	12	11	8	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1089.6	1089.6	1089.6	1089.6	1089.6
2.5°	1077.5	1088.4	1081.2	1082.4	1083.6
5°	1048.5	1063.0	1064.2	1073.9	1083.6
7.5°	1006.1	1024.3	1037.6	1060.6	1076.3
10°	955.2	977.0	1002.5	1040.0	1063.0
12.5°	900.8	926.2	961.3	1014.6	1047.3
15°	841.4	869.3	915.3	984.3	1025.5
17.5°	778.5	810.0	865.7	948.0	1000.0
20°	714.3	748.2	812.4	906.8	971.0
22.5°	650.1	685.3	756.7	862.0	939.5
25°	583.6	621.1	698.6	816.0	904.4
27.5°	515.8	554.5	640.5	768.8	866.9
30°	448.0	489.1	581.1	720.4	825.7
32.5°	381.4	422.5	523.0	671.9	785.7
35°	313.6	357.2	463.7	622.3	744.6
37.5°	245.8	293.0	405.6	571.5	702.2
40°	181.6	226.4	346.3	521.8	659.8
42.5°	121.1	164.7	293.0	472.2	616.2
45°	65.4	104.1	233.7	422.5	572.7
47.5°	35.1	55.7	182.8	374.1	530.3
50°	27.8	31.5	133.2	329.3	490.3
52.5°	23.0	25.4	87.2	286.9	444.3
55°	18.2	20.6	50.8	243.4	397.1
57.5°	14.5	16.9	32.7	202.2	351.1
60°	10.9	13.3	31.5	162.2	300.3
62.5°	8.5	9.7	29.1	124.7	247.0
65°	6.1	7.3	27.8	87.2	197.3
67.5°	4.8	6.1	25.4	55.7	147.7
70°	4.8	4.8	20.6	36.3	100.5
72.5°	4.8	8.5	18.2	24.2	60.5
75°	4.8	10.9	15.7	16.9	24.2
77.5°	4.8	12.1	13.3	13.3	13.3
80°	4.8	10.9	12.1	12.1	10.9
82.5°	4.8	9.7	10.9	12.1	9.7
85°	3.6	9.7	12.1	10.9	8.5
87.5°	3.6	9.7	10.9	9.7	6.1
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	0.00	0.00	0.00	0.00	0.00	16.25	17.54	16.61	17.85	18.17
	3H	0.00	0.00	0.00	0.00	0.24	16.97	18.11	17.35	18.44	18.80
	4H	0.00	0.36	0.00	0.71	1.10	16.99	18.05	17.39	18.40	18.79
	6H	0.56	1.53	0.97	1.90	2.30	16.94	17.92	17.36	18.29	18.68
	8H	1.20	2.12	1.63	2.51	2.92	16.92	17.84	17.35	18.23	18.64
	12H	1.78	2.67	2.22	3.05	3.48	16.90	17.78	17.33	18.17	18.60
4H	2H	0.74	1.81	1.15	2.16	2.54	16.04	17.10	16.44	17.45	17.84
	3H	1.56	2.42	1.97	2.83	3.23	16.79	17.66	17.21	18.07	18.47
	4H	2.57	3.34	3.00	3.76	4.20	16.82	17.60	17.26	18.02	18.46
	6H	3.84	4.51	4.31	4.96	5.42	16.80	17.47	17.26	17.92	18.38
	8H	4.42	5.05	4.89	5.49	5.96	16.79	17.41	17.26	17.86	18.33
	12H	4.98	5.53	5.47	6.02	6.49	16.79	17.34	17.28	17.83	18.30
8H	4H	3.98	4.61	4.45	5.05	5.53	16.71	17.33	17.18	17.78	18.25
	6H	5.54	6.05	6.05	6.55	7.03	16.70	17.20	17.20	17.70	18.18
	8H	6.34	6.80	6.86	7.31	7.80	16.71	17.16	17.23	17.68	18.17
	12H	7.18	7.58	7.69	8.08	8.65	16.77	17.17	17.28	17.67	18.24
12H	4H	4.20	4.75	4.69	5.24	5.71	16.66	17.21	17.15	17.70	18.17
	6H	5.92	6.37	6.44	6.89	7.38	16.65	17.11	17.17	17.62	18.11
	8H	6.91	7.31	7.42	7.81	8.38	16.70	17.10	17.21	17.60	18.17