

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: P1061524

Luminaire Tested: S125RDRP-S1270D835-X4F0-XX-UDD-BVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061524
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-48)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-S1270D835-X4F0-XX-UDD-BVL-B
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

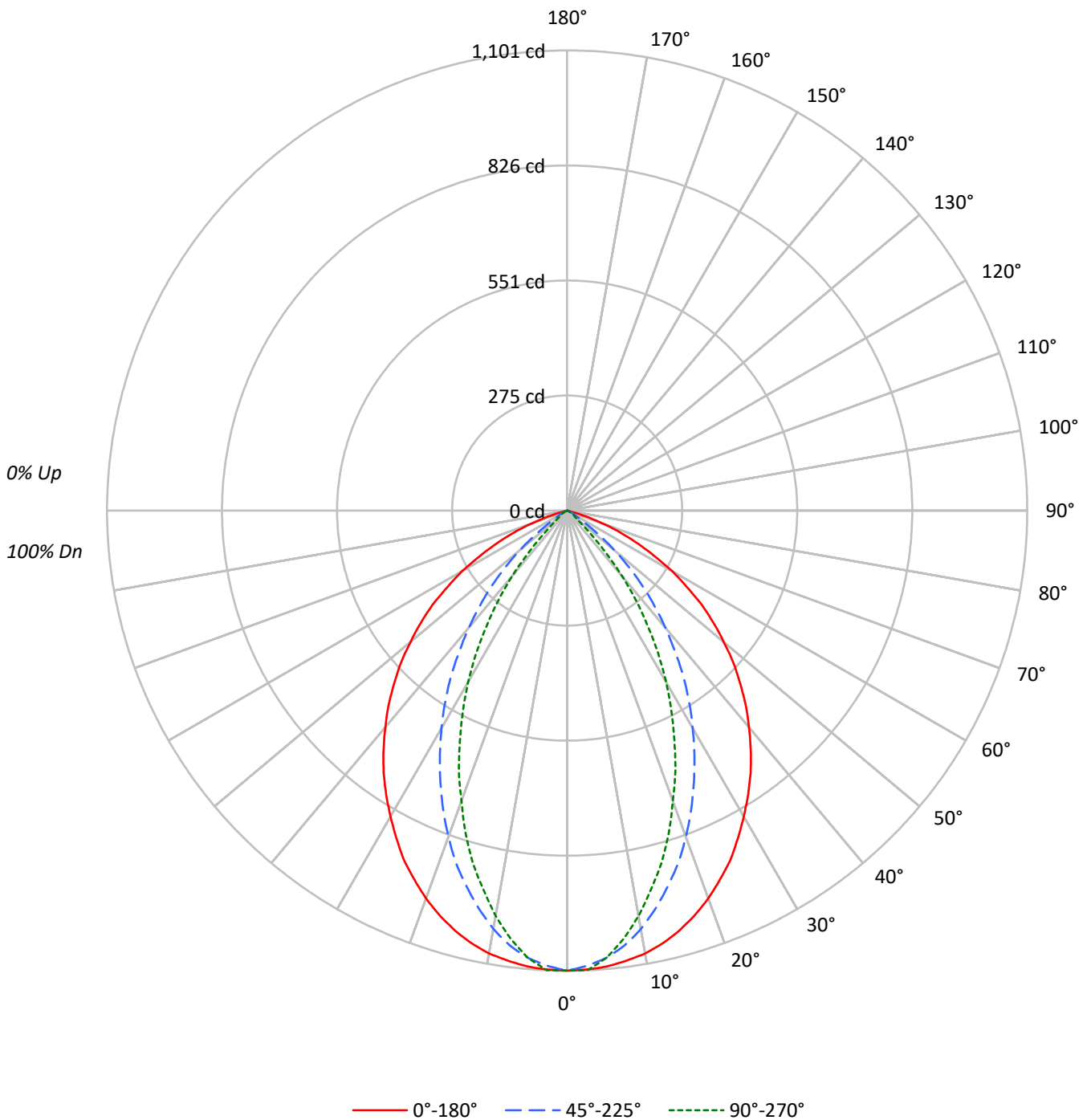
Lumens per Lamp: N/A
Luminaire Lumens: 1422.0 lumens
Efficiency: N/A
Efficacy: 34.0 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 0.81 / 0.97
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.8
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	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91					91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82					82			
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73					73			
4	92	83	76	71	90	82	75	70	79	74	70	77	72	69	75	71	68	66					66			
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60					60			
6	81	70	63	58	79	69	62	57	67	61	57	66	61	57	65	60	56	54					54			
7	76	65	58	53	74	64	57	52	63	56	52	61	56	52	60	55	51	50					50			
8	71	60	53	48	70	59	53	48	58	52	48	57	52	48	56	51	47	46					46			
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42					42			
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39					39			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7579	7579	7579
5°	7567	7427	7427
10°	7523	7107	6883
15°	7411	6635	6221
20°	7235	6086	5415
25°	7016	5449	4611
30°	6719	4780	3764
35°	6433	4077	2819
40°	6082	3289	1827
45°	5698	2489	792
50°	5242	1586	296
55°	4724	697	209
60°	3999	300	140
65°	3029	189	72
70°	1842	89	30
75°	386	40	40
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5698 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.5	7.1
10°-20°	264.5	18.6
20°-30°	339.6	23.9
30°-40°	319.7	22.5
40°-50°	223.5	15.7
50°-60°	119.4	8.4
60°-70°	47.6	3.3
70°-80°	6.2	0.4
80°-90°	0.0	0.0
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°	705.6	49.6
0°-40°	1025.3	72.1
0°-60°	1368.2	96.2
0°-90°	1422.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1422.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1101	1101	1101	1101	1101	
5°	1095	1092	1075	1078	1075	104
15°	1040	1006	931	887	873	293
25°	924	842	717	639	607	424
35°	765	643	485	375	335	478
45°	585	438	256	123	81	451
55°	394	241	58	20	17	349
65°	186	74	12	6	4	185
75°	14	4	2	2	2	28
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1100.7	1100.7	1100.7	1100.7	1100.7
2.5°	1099.2	1100.7	1090.5	1099.2	1100.7
5°	1094.9	1092.0	1074.6	1077.5	1074.6
7.5°	1086.2	1078.9	1049.9	1039.7	1033.9
10°	1076.0	1060.0	1016.5	994.7	984.5
12.5°	1060.0	1036.8	975.8	942.4	927.9
15°	1039.7	1006.3	930.8	887.2	872.7
17.5°	1015.0	971.5	884.3	830.6	808.8
20°	987.4	929.4	830.6	766.7	739.1
22.5°	955.5	888.7	775.4	704.3	676.7
25°	923.5	842.2	717.3	638.9	607.0
27.5°	884.3	794.3	659.3	575.0	540.2
30°	845.1	746.4	601.2	509.7	473.4
32.5°	805.9	695.6	543.1	441.4	405.1
35°	765.3	643.3	485.0	374.6	335.4
37.5°	721.7	591.0	422.6	310.8	270.1
40°	676.7	540.2	365.9	248.3	203.3
42.5°	633.1	489.4	309.3	187.3	138.0
45°	585.2	438.5	255.6	123.4	81.3
47.5°	540.2	389.2	200.4	71.2	42.1
50°	489.4	338.3	148.1	37.8	27.6
52.5°	441.4	289.0	98.7	24.7	21.8
55°	393.5	241.1	58.1	20.3	17.4
57.5°	338.3	194.6	31.9	16.0	13.1
60°	290.4	152.5	21.8	11.6	10.2
62.5°	235.2	111.8	16.0	8.7	7.3
65°	185.9	74.1	11.6	5.8	4.4
67.5°	138.0	43.6	7.3	2.9	2.9
70°	91.5	23.2	4.4	1.5	1.5
72.5°	47.9	10.2	2.9	1.5	1.5
75°	14.5	4.4	1.5	1.5	1.5
77.5°	0.0	1.5	0.0	0.0	1.5
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
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	15.98	17.24	16.35	17.56	17.87	0.00	0.00	0.00	0.00	0.00
	3H	16.57	17.68	16.95	18.01	18.37	0.00	0.00	0.00	0.00	0.00
	4H	16.53	17.56	16.93	17.91	18.30	0.00	0.00	0.00	0.00	0.00
	6H	16.44	17.39	16.86	17.76	18.15	0.00	0.00	0.00	0.00	0.00
	8H	16.40	17.29	16.83	17.68	18.09	0.00	0.00	0.00	0.00	0.00
	12H	16.35	17.20	16.78	17.59	18.02	0.00	0.00	0.00	0.00	0.00
4H	2H	15.75	16.79	16.16	17.14	17.52	0.00	0.00	0.00	0.00	0.00
	3H	16.35	17.18	16.76	17.59	17.99	0.00	0.00	0.00	0.00	0.00
	4H	16.30	17.04	16.73	17.46	17.90	0.00	0.00	0.00	0.00	0.00
	6H	16.21	16.85	16.67	17.29	17.76	0.00	0.00	0.00	0.00	0.00
	8H	16.15	16.74	16.62	17.19	17.66	0.00	0.00	0.00	0.00	0.00
	12H	16.10	16.62	16.59	17.10	17.58	0.00	0.00	0.00	0.00	0.00
8H	4H	16.15	16.74	16.62	17.19	17.66	0.00	0.00	0.00	0.00	0.00
	6H	16.04	16.52	16.55	17.02	17.50	0.00	0.00	0.00	0.00	0.00
	8H	15.98	16.41	16.50	16.92	17.42	0.00	0.00	0.00	0.00	0.00
	12H	15.93	16.31	16.44	16.80	17.38	0.00	0.00	0.00	0.00	0.00
12H	4H	16.10	16.62	16.59	17.10	17.58	0.00	0.00	0.00	0.00	0.00
	6H	15.97	16.41	16.50	16.92	17.42	0.00	0.00	0.00	0.00	0.00
	8H	15.93	16.31	16.44	16.80	17.38	0.00	0.00	0.00	0.00	0.00