

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: P1061932

Luminaire Tested: S125RDR-H1270D835-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061932
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-47)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-H1270D835-X4F0-XX-UDD-SVL-B
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
HIGH PERFORMANCE LIGHT ENGINE
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

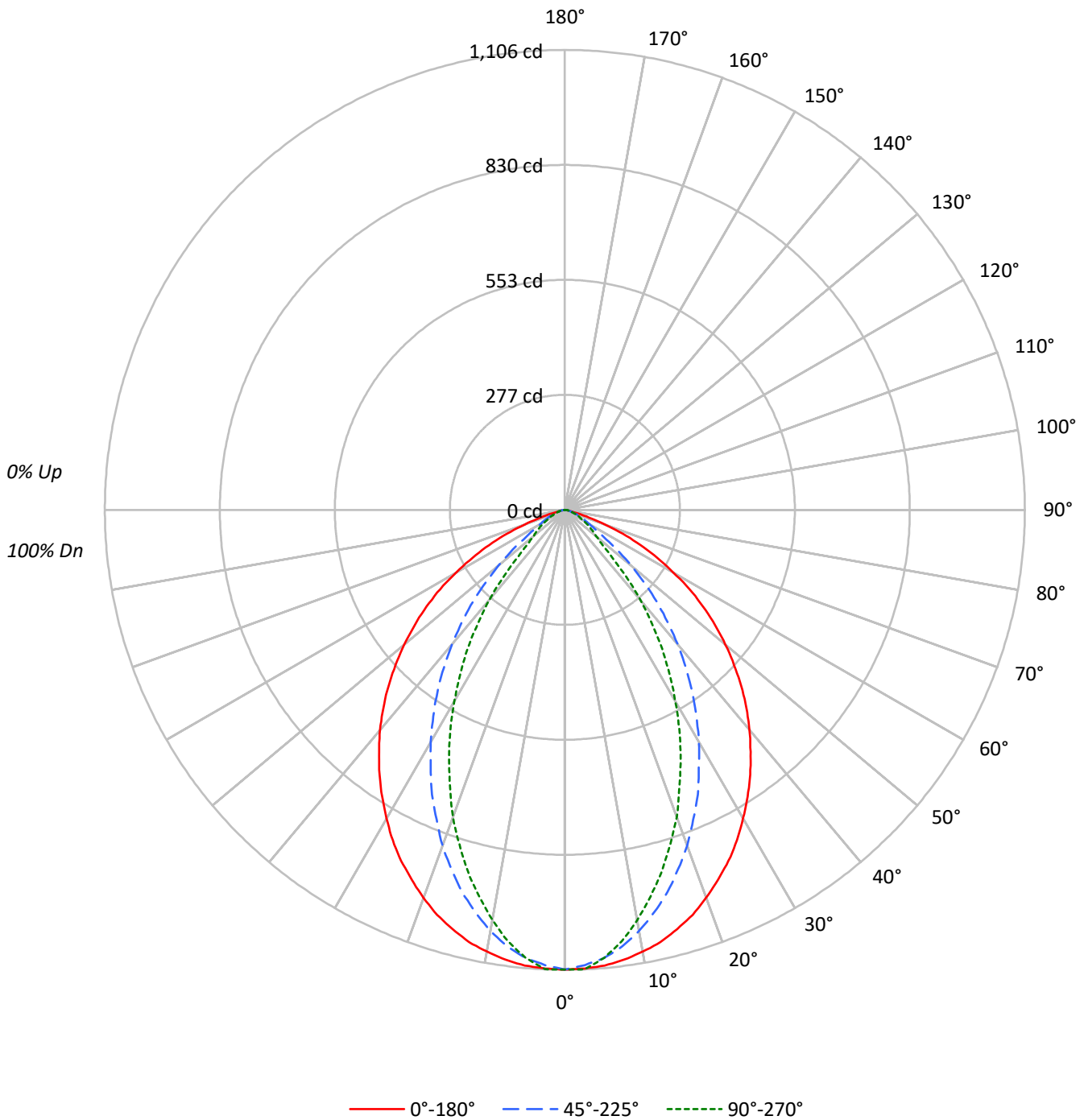
Lumens per Lamp: N/A
Luminaire Lumens: 1598.8 lumens
Efficiency: N/A
Efficacy: 43.8 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 0.85 / 1.01
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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			100	
1	112	108	105	102	109	106	103	101	102	100	97	98	96	95	95	93	92	90			90	
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80			80	
3	97	89	82	77	95	87	81	77	84	79	75	82	78	74	79	76	73	71			71	
4	90	81	74	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63			63	
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57			57	
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52			52	
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47			47	
8	69	58	50	45	68	57	50	45	56	50	45	55	49	45	54	48	45	43			43	
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39			39	
10	62	50	43	38	61	50	43	38	49	43	38	48	42	38	47	42	38	36			36	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7612	7612	7612
5°	7602	7476	7476
10°	7543	7189	7003
15°	7440	6789	6419
20°	7277	6299	5764
25°	7076	5742	5005
30°	6813	5126	4222
35°	6529	4487	3424
40°	6212	3788	2538
45°	5840	3037	1532
50°	5402	2227	1053
55°	4874	1366	876
60°	4139	928	697
65°	3273	709	549
70°	2063	509	453
75°	673	372	372
80°	222	278	333
85°	111	221	221

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5840 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.3	6.4
10°-20°	270.0	16.9
20°-30°	355.2	22.2
30°-40°	349.0	21.8
40°-50°	264.0	16.5
50°-60°	160.1	10.0
60°-70°	75.6	4.7
70°-80°	19.7	1.2
80°-90°	2.9	0.2
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°	727.5	45.5
0°-40°	1076.5	67.3
0°-60°	1500.6	93.9
0°-90°	1598.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1598.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1106	1106	1106	1106	1106	
5°	1100	1097	1082	1083	1082	104
15°	1044	1016	952	916	900	294
25°	931	861	756	686	659	428
35°	777	673	534	440	407	485
45°	600	472	312	198	157	462
55°	406	278	114	77	73	361
65°	201	102	44	36	34	198
75°	25	17	14	14	14	39
85°	1	1	3	3	3	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1105.6	1105.6	1105.6	1105.6	1105.6
2.5°	1104.1	1104.1	1095.7	1105.6	1105.6
5°	1099.9	1097.1	1081.7	1083.1	1081.7
7.5°	1091.5	1085.9	1059.2	1052.2	1046.6
10°	1078.9	1067.6	1028.3	1011.4	1001.6
12.5°	1064.8	1045.1	991.8	967.9	952.4
15°	1043.7	1015.6	952.4	915.9	900.5
17.5°	1021.3	980.5	906.1	862.5	842.9
20°	993.2	945.4	859.7	806.3	786.7
22.5°	962.3	906.1	806.3	747.3	720.6
25°	931.4	861.1	755.8	685.5	658.8
27.5°	896.2	816.2	698.2	625.1	595.6
30°	856.9	771.2	644.8	568.9	531.0
32.5°	817.6	724.9	588.6	505.7	467.8
35°	776.8	672.9	533.8	439.7	407.4
37.5°	733.3	623.7	477.6	379.3	341.4
40°	691.1	574.5	421.4	317.5	282.4
42.5°	646.2	525.4	365.2	257.1	217.7
45°	599.8	472.0	311.9	198.1	157.3
47.5°	552.1	424.2	258.5	146.1	118.0
50°	504.3	373.7	207.9	108.2	98.3
52.5°	455.1	324.5	157.3	89.9	85.7
55°	406.0	278.1	113.8	77.3	73.0
57.5°	355.4	227.6	85.7	66.0	61.8
60°	300.6	182.6	67.4	54.8	50.6
62.5°	250.0	143.3	54.8	45.0	42.1
65°	200.9	102.5	43.5	36.5	33.7
67.5°	150.3	68.8	33.7	28.1	28.1
70°	102.5	45.0	25.3	22.5	22.5
72.5°	61.8	26.7	18.3	18.3	18.3
75°	25.3	16.9	14.0	14.0	14.0
77.5°	8.4	9.8	9.8	11.2	11.2
80°	5.6	5.6	7.0	8.4	8.4
82.5°	2.8	4.2	4.2	5.6	5.6
85°	1.4	1.4	2.8	2.8	2.8
87.5°	0.0	0.0	0.0	1.4	1.4
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	16.38	17.71	16.75	18.03	18.34	7.04	8.37	7.40	8.68	8.99
	3H	17.09	18.26	17.47	18.59	18.96	7.82	8.99	8.20	9.32	9.69
	4H	17.10	18.20	17.51	18.55	18.93	8.07	9.16	8.47	9.51	9.90
	6H	17.03	18.04	17.45	18.41	18.80	8.24	9.25	8.66	9.62	10.01
	8H	16.99	17.95	17.42	18.34	18.74	8.29	9.24	8.72	9.63	10.03
	12H	16.95	17.86	17.38	18.24	18.67	8.29	9.20	8.73	9.59	10.02
4H	2H	16.21	17.31	16.62	17.66	18.04	7.52	8.62	7.92	8.97	9.35
	3H	16.96	17.85	17.37	18.25	18.66	8.43	9.32	8.84	9.73	10.13
	4H	16.98	17.77	17.41	18.19	18.63	8.74	9.54	9.18	9.96	10.40
	6H	16.92	17.60	17.38	18.05	18.51	9.00	9.68	9.46	10.13	10.60
	8H	16.86	17.50	17.33	17.95	18.42	9.07	9.70	9.53	10.15	10.62
	12H	16.82	17.38	17.31	17.87	18.34	9.09	9.65	9.58	10.14	10.61
8H	4H	16.86	17.50	17.33	17.94	18.42	8.85	9.49	9.32	9.94	10.41
	6H	16.78	17.30	17.29	17.80	18.28	9.17	9.69	9.67	10.19	10.67
	8H	16.73	17.20	17.25	17.71	18.20	9.27	9.74	9.80	10.26	10.75
	12H	16.69	17.10	17.20	17.60	18.17	9.34	9.75	9.85	10.24	10.81
12H	4H	16.82	17.38	17.30	17.86	18.34	8.83	9.39	9.31	9.87	10.35
	6H	16.73	17.19	17.25	17.71	18.20	9.14	9.61	9.66	10.12	10.62
	8H	16.69	17.10	17.21	17.60	18.17	9.28	9.69	9.79	10.19	10.76