

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: P1061443

Luminaire Tested: S125RDRP-S1090D835-X4F0-XX-UDD-BVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061443
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-S1090D835-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

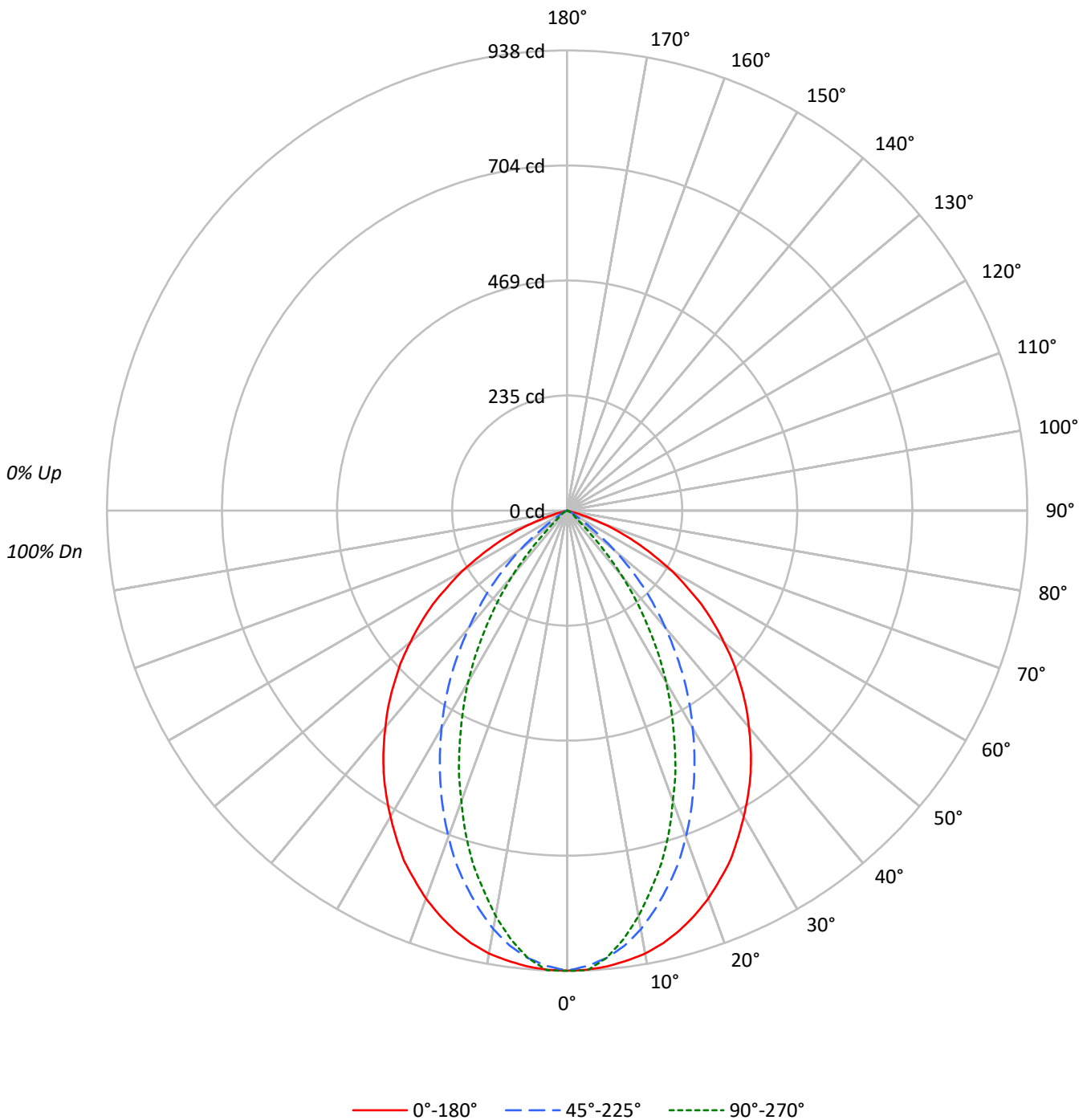
Lumens per Lamp: N/A
Luminaire Lumens: 1211.6 lumens
Efficiency: N/A
Efficacy: 34.6 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 0.81 / 0.97
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 35
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	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	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91																												
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82																												
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73																												
4	92	83	76	71	90	82	75	70	79	74	70	77	72	69	75	71	68	66																												
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60																												
6	81	70	63	58	79	69	62	57	67	61	57	66	61	57	65	60	56	54																												
7	76	65	58	53	74	64	57	52	63	56	52	61	56	52	60	55	51	50																												
8	71	60	53	48	70	59	53	48	58	52	48	57	52	48	56	51	47	46																												
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42																												
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6458	6458	6458
5°	6448	6328	6328
10°	6410	6055	5865
15°	6315	5653	5300
20°	6165	5185	4615
25°	5978	4643	3929
30°	5725	4072	3207
35°	5481	3474	2402
40°	5183	2802	1557
45°	4855	2121	675
50°	4467	1352	252
55°	4025	594	178
60°	3408	256	120
65°	2581	161	60
70°	1570	74	24
75°	330	32	32
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4855 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.5	7.1
10°-20°	225.4	18.6
20°-30°	289.4	23.9
30°-40°	272.4	22.5
40°-50°	190.5	15.7
50°-60°	101.7	8.4
60°-70°	40.6	3.3
70°-80°	5.2	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°	601.2	49.6
0°-40°	873.6	72.1
0°-60°	1165.8	96.2
0°-90°	1211.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1211.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	938	938	938	938	938	
5°	933	930	916	918	916	89
15°	886	858	793	756	744	249
25°	787	718	611	544	517	361
35°	652	548	413	319	286	407
45°	499	374	218	105	69	385
55°	335	205	50	17	15	297
65°	158	63	10	5	4	158
75°	12	4	1	1	1	24
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°	937.9	937.9	937.9	937.9	937.9
2.5°	936.6	937.9	929.2	936.6	937.9
5°	932.9	930.5	915.6	918.1	915.6
7.5°	925.5	919.3	894.6	885.9	881.0
10°	916.8	903.2	866.1	847.6	838.9
12.5°	903.2	883.4	831.5	803.0	790.6
15°	885.9	857.5	793.1	756.0	743.6
17.5°	864.9	827.8	753.5	707.7	689.2
20°	841.4	791.9	707.7	653.3	629.8
22.5°	814.2	757.2	660.7	600.1	576.6
25°	786.9	717.6	611.2	544.4	517.2
27.5°	753.5	676.8	561.7	490.0	460.3
30°	720.1	636.0	512.2	434.3	403.4
32.5°	686.7	592.7	462.8	376.1	345.2
35°	652.1	548.1	413.3	319.2	285.8
37.5°	614.9	503.6	360.1	264.8	230.1
40°	576.6	460.3	311.8	211.6	173.2
42.5°	539.5	417.0	263.5	159.6	117.5
45°	498.6	373.7	217.8	105.2	69.3
47.5°	460.3	331.6	170.7	60.6	35.9
50°	417.0	288.3	126.2	32.2	23.5
52.5°	376.1	246.2	84.1	21.0	18.6
55°	335.3	205.4	49.5	17.3	14.8
57.5°	288.3	165.8	27.2	13.6	11.1
60°	247.5	129.9	18.6	9.9	8.7
62.5°	200.4	95.3	13.6	7.4	6.2
65°	158.4	63.1	9.9	4.9	3.7
67.5°	117.5	37.1	6.2	2.5	2.5
70°	78.0	19.8	3.7	1.2	1.2
72.5°	40.8	8.7	2.5	1.2	1.2
75°	12.4	3.7	1.2	1.2	1.2
77.5°	0.0	1.2	0.0	0.0	1.2
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	15.42	16.69	15.79	17.00	17.32	0.00	0.00	0.00	0.00	0.00
	3H	16.01	17.12	16.39	17.45	17.82	0.00	0.00	0.00	0.00	0.00
	4H	15.97	17.00	16.38	17.36	17.74	0.00	0.00	0.00	0.00	0.00
	6H	15.89	16.83	16.30	17.20	17.60	0.00	0.00	0.00	0.00	0.00
	8H	15.84	16.73	16.27	17.13	17.53	0.00	0.00	0.00	0.00	0.00
	12H	15.79	16.65	16.23	17.03	17.46	0.00	0.00	0.00	0.00	0.00
4H	2H	15.20	16.23	15.60	16.58	16.97	0.00	0.00	0.00	0.00	0.00
	3H	15.79	16.62	16.20	17.03	17.43	0.00	0.00	0.00	0.00	0.00
	4H	15.74	16.48	16.17	16.90	17.35	0.00	0.00	0.00	0.00	0.00
	6H	15.65	16.29	16.12	16.74	17.21	0.00	0.00	0.00	0.00	0.00
	8H	15.59	16.19	16.06	16.63	17.11	0.00	0.00	0.00	0.00	0.00
	12H	15.54	16.06	16.03	16.55	17.02	0.00	0.00	0.00	0.00	0.00
8H	4H	15.59	16.19	16.06	16.63	17.11	0.00	0.00	0.00	0.00	0.00
	6H	15.48	15.97	15.99	16.46	16.95	0.00	0.00	0.00	0.00	0.00
	8H	15.42	15.85	15.94	16.37	16.86	0.00	0.00	0.00	0.00	0.00
	12H	15.37	15.75	15.89	16.25	16.82	0.00	0.00	0.00	0.00	0.00
12H	4H	15.54	16.06	16.03	16.55	17.02	0.00	0.00	0.00	0.00	0.00
	6H	15.42	15.85	15.94	16.37	16.86	0.00	0.00	0.00	0.00	0.00
	8H	15.37	15.75	15.89	16.25	16.82	0.00	0.00	0.00	0.00	0.00