

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: P1061569

Luminaire Tested: S125RDRP-S1270D935-X4F0-XX-UDD-BVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061569
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-S1270D935-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, 90 CRI LEDS
Ballast/Driver: -

Summary

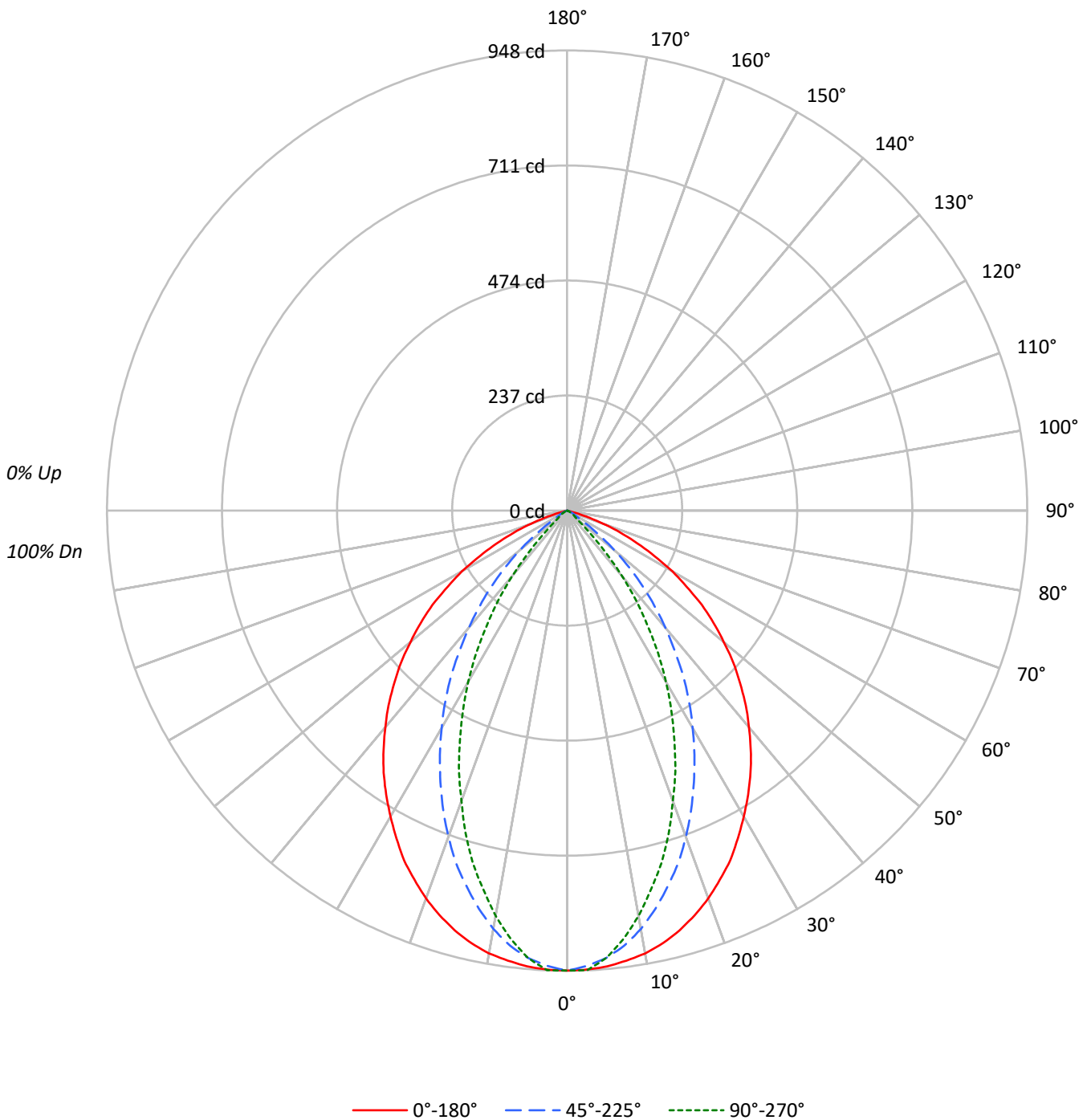
Lumens per Lamp: N/A
Luminaire Lumens: 1224.4 lumens
Efficiency: N/A
Efficacy: 29.3 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 0.81 / 0.97
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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	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°	6525	6525	6525
5°	6516	6395	6395
10°	6477	6119	5927
15°	6381	5712	5356
20°	6230	5240	4663
25°	6041	4692	3970
30°	5785	4115	3241
35°	5538	3510	2427
40°	5236	2832	1573
45°	4907	2142	682
50°	4513	1366	255
55°	4067	600	180
60°	3444	259	121
65°	2607	163	62
70°	1586	76	26
75°	333	35	35
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4907 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.4	7.1
10°-20°	227.7	18.6
20°-30°	292.4	23.9
30°-40°	275.3	22.5
40°-50°	192.4	15.7
50°-60°	102.8	8.4
60°-70°	41.0	3.4
70°-80°	5.3	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°	607.5	49.6
0°-40°	882.8	72.1
0°-60°	1178.0	96.2
0°-90°	1224.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1224.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	948	948	948	948	948	
5°	943	940	925	928	925	89
15°	895	866	801	764	751	252
25°	795	725	618	550	523	365
35°	659	554	418	323	289	411
45°	504	378	220	106	70	389
55°	339	208	50	18	15	300
65°	160	64	10	5	4	159
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°	947.7	947.7	947.7	947.7	947.7
2.5°	946.5	947.7	938.9	946.5	947.7
5°	942.7	940.2	925.2	927.7	925.2
7.5°	935.2	928.9	903.9	895.2	890.2
10°	926.4	912.7	875.2	856.4	847.7
12.5°	912.7	892.7	840.2	811.4	798.9
15°	895.2	866.4	801.4	763.9	751.4
17.5°	873.9	836.4	761.4	715.2	696.4
20°	850.2	800.2	715.2	660.1	636.4
22.5°	822.7	765.2	667.6	606.4	582.6
25°	795.2	725.2	617.6	550.1	522.6
27.5°	761.4	683.9	567.6	495.1	465.1
30°	727.7	642.6	517.6	438.8	407.6
32.5°	693.9	598.9	467.6	380.1	348.8
35°	658.9	553.9	417.6	322.6	288.8
37.5°	621.4	508.9	363.8	267.6	232.5
40°	582.6	465.1	315.1	213.8	175.0
42.5°	545.1	421.3	266.3	161.3	118.8
45°	503.9	377.6	220.0	106.3	70.0
47.5°	465.1	335.1	172.5	61.3	36.3
50°	421.3	291.3	127.5	32.5	23.8
52.5°	380.1	248.8	85.0	21.3	18.8
55°	338.8	207.5	50.0	17.5	15.0
57.5°	291.3	167.5	27.5	13.8	11.3
60°	250.1	131.3	18.8	10.0	8.8
62.5°	202.5	96.3	13.8	7.5	6.3
65°	160.0	63.8	10.0	5.0	3.8
67.5°	118.8	37.5	6.3	2.5	2.5
70°	78.8	20.0	3.8	1.3	1.3
72.5°	41.3	8.8	2.5	1.3	1.3
75°	12.5	3.8	1.3	1.3	1.3
77.5°	0.0	1.3	0.0	0.0	1.3
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	15.46	16.72	15.82	17.04	17.35	0.00	0.00	0.00	0.00	0.00
	3H	16.04	17.16	16.42	17.49	17.85	0.00	0.00	0.00	0.00	0.00
	4H	16.01	17.04	16.41	17.39	17.78	0.00	0.00	0.00	0.00	0.00
	6H	15.92	16.87	16.34	17.24	17.63	0.00	0.00	0.00	0.00	0.00
	8H	15.88	16.77	16.31	17.16	17.57	0.00	0.00	0.00	0.00	0.00
	12H	15.83	16.68	16.26	17.07	17.50	0.00	0.00	0.00	0.00	0.00
4H	2H	15.23	16.26	15.64	16.62	17.00	0.00	0.00	0.00	0.00	0.00
	3H	15.82	16.66	16.24	17.07	17.47	0.00	0.00	0.00	0.00	0.00
	4H	15.77	16.52	16.21	16.94	17.38	0.00	0.00	0.00	0.00	0.00
	6H	15.69	16.32	16.15	16.77	17.24	0.00	0.00	0.00	0.00	0.00
	8H	15.63	16.22	16.10	16.67	17.14	0.00	0.00	0.00	0.00	0.00
	12H	15.58	16.10	16.06	16.58	17.06	0.00	0.00	0.00	0.00	0.00
8H	4H	15.63	16.22	16.10	16.67	17.14	0.00	0.00	0.00	0.00	0.00
	6H	15.52	16.00	16.02	16.50	16.98	0.00	0.00	0.00	0.00	0.00
	8H	15.45	15.89	15.98	16.40	16.90	0.00	0.00	0.00	0.00	0.00
	12H	15.41	15.79	15.92	16.28	16.86	0.00	0.00	0.00	0.00	0.00
12H	4H	15.58	16.10	16.06	16.58	17.06	0.00	0.00	0.00	0.00	0.00
	6H	15.45	15.89	15.98	16.40	16.90	0.00	0.00	0.00	0.00	0.00
	8H	15.41	15.79	15.92	16.28	16.86	0.00	0.00	0.00	0.00	0.00