

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: P1061437

Luminaire Tested: S125RDR-S1090D830-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061437
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-S1090D830-X4F0-XX-UDD-SVL-B
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

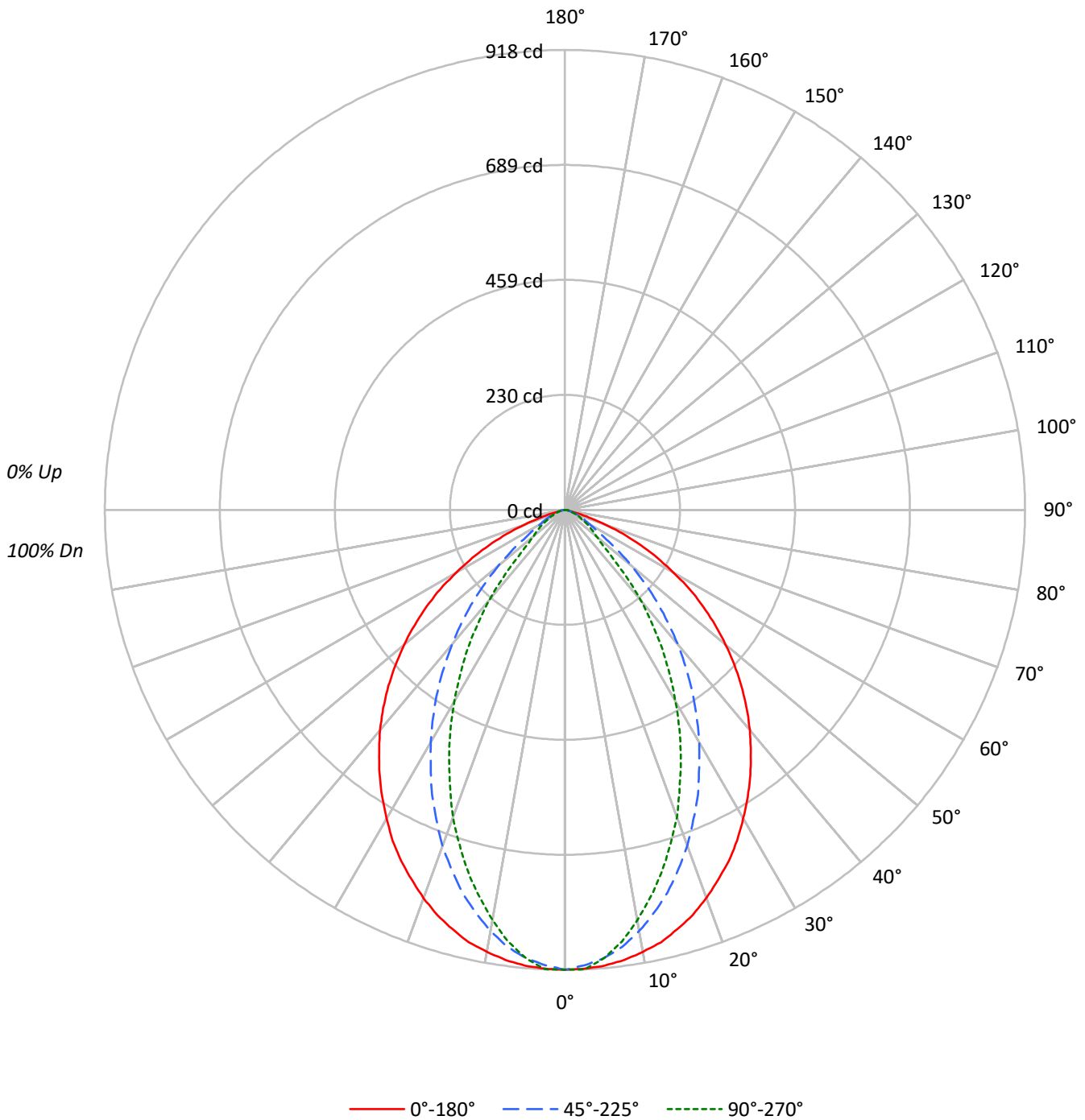
Lumens per Lamp: N/A
Luminaire Lumens: 1327.5 lumens
Efficiency: N/A
Efficacy: 37.9 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 0.85 / 1.01
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 35
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°	6320	6320	6320
5°	6312	6207	6207
10°	6262	5969	5814
15°	6177	5636	5329
20°	6042	5230	4785
25°	5875	4767	4156
30°	5656	4256	3505
35°	5421	3725	2843
40°	5157	3145	2107
45°	4849	2521	1272
50°	4485	1849	874
55°	4047	1134	727
60°	3437	771	578
65°	2717	590	456
70°	1713	423	376
75°	559	311	311
80°	186	230	278
85°	95	182	182

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4849 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.9	6.4
10°-20°	224.2	16.9
20°-30°	294.9	22.2
30°-40°	289.8	21.8
40°-50°	219.2	16.5
50°-60°	132.9	10.0
60°-70°	62.7	4.7
70°-80°	16.4	1.2
80°-90°	2.5	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°	604.0	45.5
0°-40°	893.7	67.3
0°-60°	1245.8	93.9
0°-90°	1327.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1327.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	918	918	918	918	918	
5°	913	911	898	899	898	87
15°	867	843	791	760	748	244
25°	773	715	628	569	547	355
35°	645	559	443	365	338	403
45°	498	392	259	164	131	383
55°	337	231	94	64	61	300
65°	167	85	36	30	28	164
75°	21	14	12	12	12	33
85°	1	1	2	2	2	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	917.9	917.9	917.9	917.9	917.9
2.5°	916.7	916.7	909.7	917.9	917.9
5°	913.2	910.9	898.0	899.2	898.0
7.5°	906.2	901.5	879.4	873.6	868.9
10°	895.7	886.4	853.7	839.7	831.6
12.5°	884.1	867.7	823.4	803.6	790.7
15°	866.6	843.2	790.7	760.4	747.6
17.5°	847.9	814.1	752.3	716.1	699.8
20°	824.6	784.9	713.8	669.5	653.1
22.5°	798.9	752.3	669.5	620.5	598.3
25°	773.3	714.9	627.5	569.2	547.0
27.5°	744.1	677.6	579.6	519.0	494.5
30°	711.4	640.3	535.3	472.4	440.9
32.5°	678.8	601.8	488.7	419.9	388.4
35°	645.0	558.7	443.2	365.1	338.2
37.5°	608.8	517.8	396.5	314.9	283.4
40°	573.8	477.0	349.9	263.6	234.4
42.5°	536.5	436.2	303.2	213.4	180.8
45°	498.0	391.9	258.9	164.4	130.6
47.5°	458.4	352.2	214.6	121.3	98.0
50°	418.7	310.2	172.6	89.8	81.6
52.5°	377.9	269.4	130.6	74.6	71.1
55°	337.1	230.9	94.5	64.1	60.6
57.5°	295.1	188.9	71.1	54.8	51.3
60°	249.6	151.6	56.0	45.5	42.0
62.5°	207.6	119.0	45.5	37.3	35.0
65°	166.8	85.1	36.2	30.3	28.0
67.5°	124.8	57.1	28.0	23.3	23.3
70°	85.1	37.3	21.0	18.7	18.7
72.5°	51.3	22.2	15.2	15.2	15.2
75°	21.0	14.0	11.7	11.7	11.7
77.5°	7.0	8.2	8.2	9.3	9.3
80°	4.7	4.7	5.8	7.0	7.0
82.5°	2.3	3.5	3.5	4.7	4.7
85°	1.2	1.2	2.3	2.3	2.3
87.5°	0.0	0.0	0.0	1.2	1.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)