

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: P1060345

Luminaire Tested: S124RDR-S1195D930-X4F0-XX-UDD-BVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1060345
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-39)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDR-S1195D930-X4F0-XX-UDD-BVL-B
Description: DEFINE 4 BLACK REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

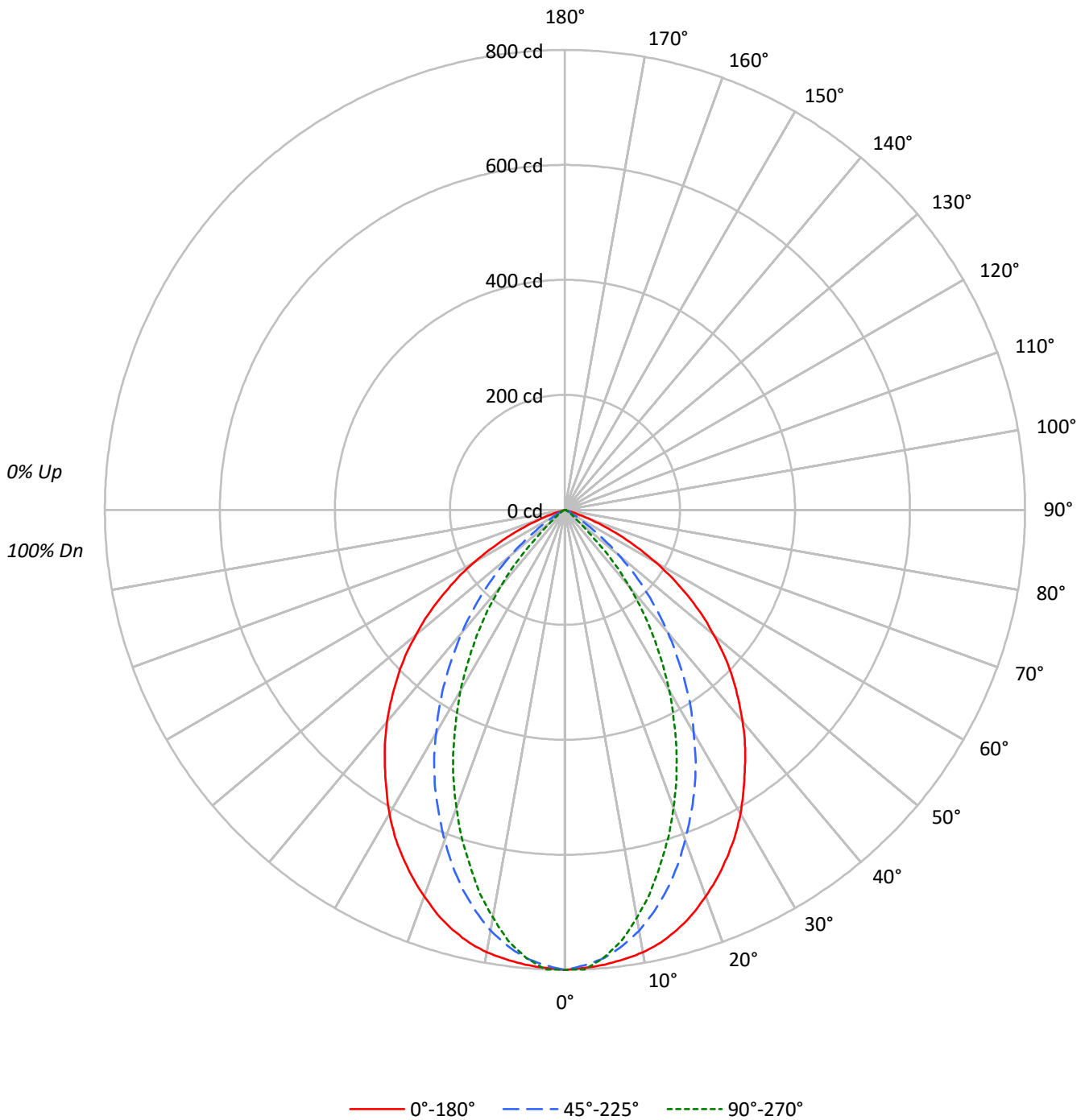
Lumens per Lamp: N/A
Luminaire Lumens: 1044.6 lumens
Efficiency: N/A
Efficacy: 25.0 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 0.83 / 0.98
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6889	6889	6889
5°	6865	6765	6755
10°	6833	6499	6297
15°	6740	6101	5699
20°	6558	5604	5053
25°	6337	5075	4360
30°	6069	4449	3609
35°	5735	3816	2807
40°	5406	3132	1963
45°	5011	2408	972
50°	4523	1626	326
55°	3905	833	225
60°	3126	298	158
65°	2144	165	71
70°	959	88	58
75°	0	40	40
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5011 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.9	7.1
10°-20°	193.6	18.5
20°-30°	250.7	24.0
30°-40°	238.2	22.8
40°-50°	168.7	16.1
50°-60°	86.6	8.3
60°-70°	30.3	2.9
70°-80°	2.6	0.3
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°	518.2	49.6
0°-40°	756.4	72.4
0°-60°	1011.7	96.8
0°-90°	1044.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1044.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	800	800	800	800	800	
5°	794	795	783	783	782	75
15°	756	733	684	652	639	213
25°	667	615	534	477	459	307
35°	546	466	363	292	267	341
45°	412	317	198	113	80	317
55°	260	171	56	16	15	232
65°	105	51	8	5	4	105
75°	0	1	1	1	1	9
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	800.0	800.0	800.0	800.0	800.0
2.5°	797.6	800.0	793.0	798.8	800.0
5°	794.2	795.3	782.6	782.6	781.5
7.5°	788.4	786.1	765.3	757.2	756.0
10°	781.5	773.4	743.3	726.0	720.2
12.5°	771.1	756.0	715.6	690.1	683.2
15°	756.0	732.9	684.4	652.0	639.3
17.5°	737.5	707.5	649.7	610.4	597.7
20°	715.6	677.4	611.5	567.6	551.4
22.5°	692.5	648.5	572.2	522.5	506.3
25°	667.0	615.0	534.1	477.4	458.9
27.5°	640.4	579.2	492.5	433.5	409.2
30°	610.4	543.3	447.4	386.1	363.0
32.5°	578.0	504.0	406.9	341.0	313.3
35°	545.6	465.9	363.0	292.5	267.0
37.5°	514.4	430.0	319.1	245.1	220.8
40°	480.9	390.7	278.6	202.3	174.6
42.5°	446.2	352.6	237.0	158.4	128.3
45°	411.5	316.7	197.7	113.3	79.8
47.5°	376.9	278.6	159.5	71.7	42.8
50°	337.6	241.6	121.4	38.1	24.3
52.5°	300.6	206.9	86.7	22.0	18.5
55°	260.1	171.1	55.5	16.2	15.0
57.5°	222.0	136.4	31.2	12.7	11.6
60°	181.5	105.2	17.3	10.4	9.2
62.5°	141.0	76.3	11.6	6.9	5.8
65°	105.2	50.9	8.1	4.6	3.5
67.5°	69.4	28.9	5.8	2.3	2.3
70°	38.1	13.9	3.5	2.3	2.3
72.5°	13.9	4.6	2.3	1.2	1.2
75°	0.0	1.2	1.2	1.2	1.2
77.5°	0.0	0.0	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

(END OF REPORT)