

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: P1060363

Luminaire Tested: S124RDR-S1195D940-X4F0-XX-UDD-BVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1060363
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-S1195D940-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: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

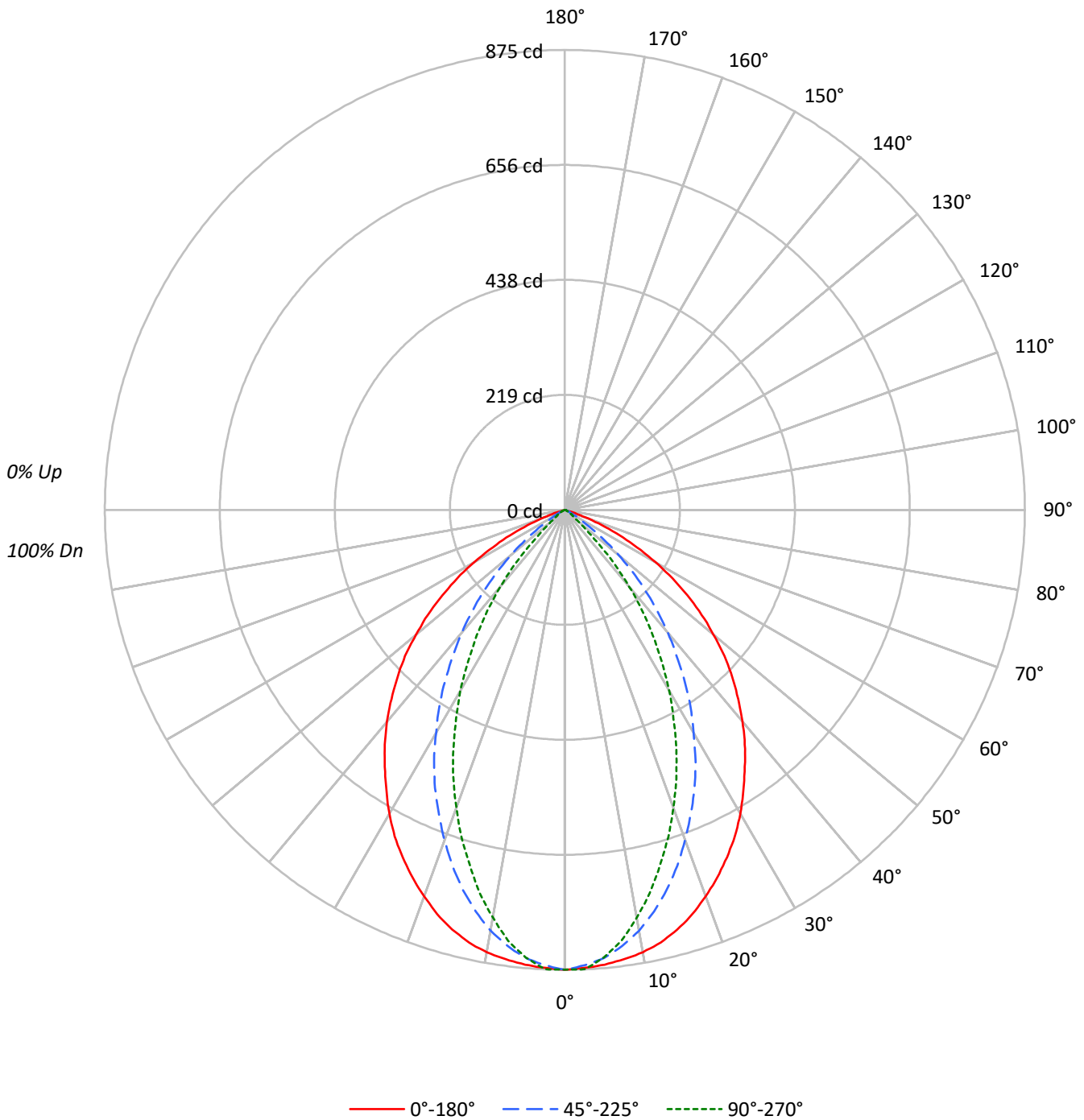
Lumens per Lamp: N/A
Luminaire Lumens: 1142.5 lumens
Efficiency: N/A
Efficacy: 27.3 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 0.83 / 0.98
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7534	7534	7534
5°	7508	7399	7388
10°	7473	7109	6888
15°	7372	6673	6233
20°	7172	6129	5527
25°	6931	5550	4769
30°	6638	4865	3947
35°	6274	4173	3071
40°	5913	3425	2146
45°	5481	2633	1062
50°	4946	1779	356
55°	4271	911	246
60°	3419	327	174
65°	2345	181	77
70°	1050	96	63
75°	0	43	43
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5481 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.8	7.1
10°-20°	211.8	18.5
20°-30°	274.2	24.0
30°-40°	260.5	22.8
40°-50°	184.5	16.1
50°-60°	94.7	8.3
60°-70°	33.1	2.9
70°-80°	2.9	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°	566.8	49.6
0°-40°	827.3	72.4
0°-60°	1106.5	96.8
0°-90°	1142.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1142.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	875	875	875	875	875	
5°	869	870	856	856	855	82
15°	827	802	748	713	699	232
25°	730	673	584	522	502	335
35°	597	510	397	320	292	373
45°	450	346	216	124	87	346
55°	284	187	61	18	16	254
65°	115	56	9	5	4	114
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°	874.9	874.9	874.9	874.9	874.9
2.5°	872.4	874.9	867.3	873.7	874.9
5°	868.6	869.9	856.0	856.0	854.7
7.5°	862.3	859.8	837.0	828.2	826.9
10°	854.7	845.9	813.0	794.0	787.7
12.5°	843.3	826.9	782.6	754.8	747.2
15°	826.9	801.6	748.5	713.1	699.2
17.5°	806.7	773.8	710.6	667.6	653.7
20°	782.6	740.9	668.8	620.8	603.1
22.5°	757.3	709.3	625.9	571.5	553.8
25°	729.5	672.6	584.1	522.2	501.9
27.5°	700.5	633.4	538.6	474.1	447.6
30°	667.6	594.2	489.3	422.3	397.0
32.5°	632.2	551.3	445.1	373.0	342.6
35°	596.8	509.5	397.0	319.9	292.1
37.5°	562.6	470.3	349.0	268.0	241.5
40°	526.0	427.4	304.7	221.3	190.9
42.5°	488.0	385.6	259.2	173.2	140.3
45°	450.1	346.4	216.2	123.9	87.2
47.5°	412.2	304.7	174.5	78.4	46.8
50°	369.2	264.3	132.8	41.7	26.6
52.5°	328.7	226.3	94.8	24.0	20.2
55°	284.5	187.1	60.7	17.7	16.4
57.5°	242.8	149.2	34.1	13.9	12.6
60°	198.5	115.1	19.0	11.4	10.1
62.5°	154.3	83.4	12.6	7.6	6.3
65°	115.1	55.6	8.9	5.1	3.8
67.5°	75.9	31.6	6.3	2.5	2.5
70°	41.7	15.2	3.8	2.5	2.5
72.5°	15.2	5.1	2.5	1.3	1.3
75°	0.0	1.3	1.3	1.3	1.3
77.5°	0.0	0.0	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

(END OF REPORT)