

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: P1060585

Luminaire Tested: S124RDRP-S795D927-X4F0-XX-UDD-WVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1060585
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-37)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDRP-S795D927-X4F0-XX-UDD-WVL-B
Description: DEFINE 4 BLACK REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

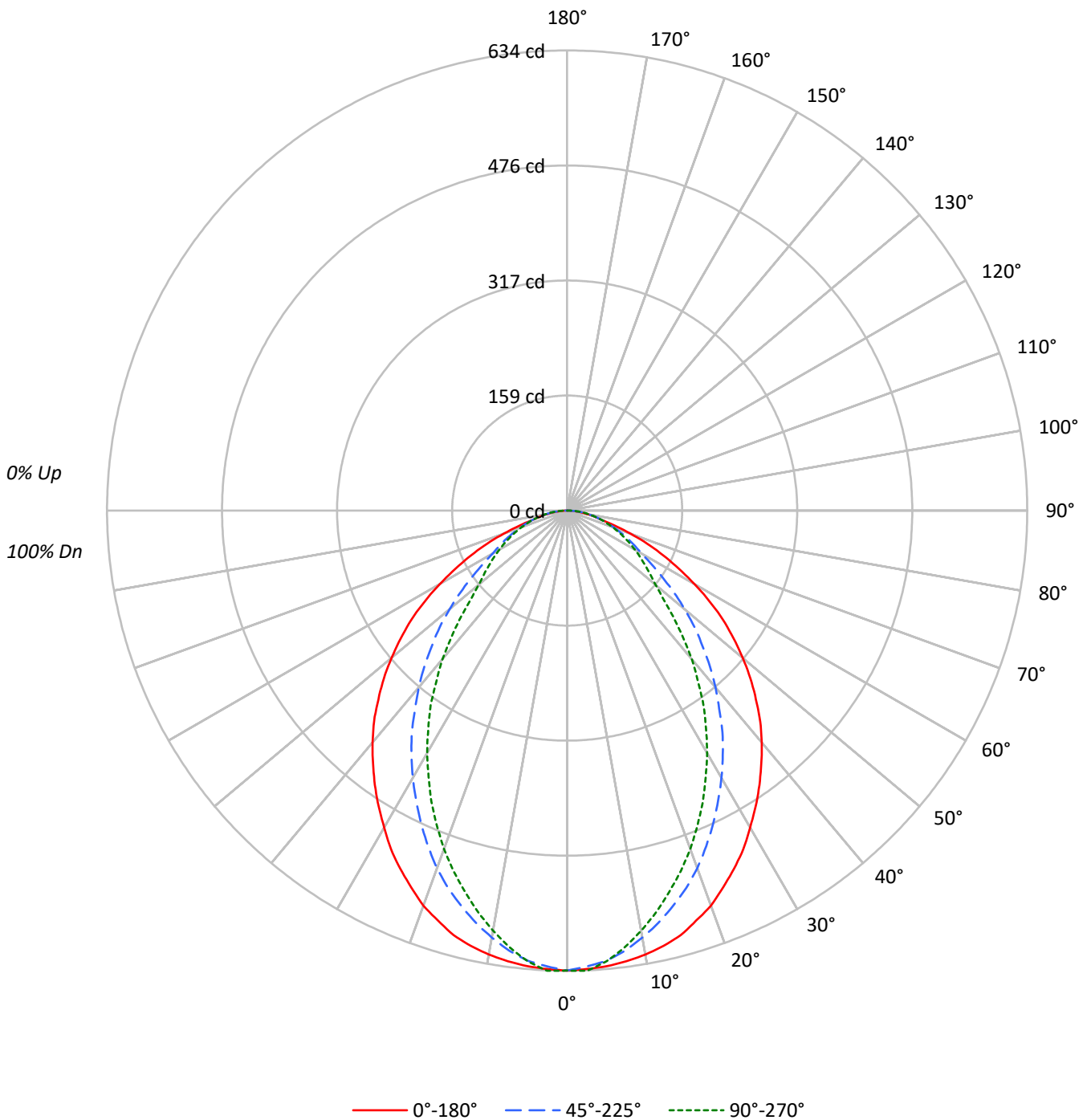
Lumens per Lamp: N/A
Luminaire Lumens: 1222.1 lumens
Efficiency: N/A
Efficacy: 47.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.96 / 1.12
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 25.8
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	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86
2	101	94	88	83	99	92	86	82	89	84	80	85	82	78	82	79	76	74
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58	56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44
7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40
8	65	52	44	39	63	51	44	39	50	43	38	49	43	38	48	42	38	36
9	61	48	40	35	59	48	40	35	46	40	35	45	39	35	44	39	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5458	5458	5458
5°	5447	5382	5389
10°	5431	5223	5138
15°	5398	5026	4847
20°	5309	4805	4545
25°	5173	4522	4203
30°	5013	4229	3836
35°	4855	3922	3445
40°	4689	3575	3006
45°	4480	3210	2512
50°	4231	2833	2125
55°	3936	2404	1968
60°	3489	2039	1860
65°	2975	1883	1760
70°	2326	1745	1669
75°	1587	1610	1610
80°	1369	1512	1552
85°	1176	1472	1620

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4480 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.0	4.8
10°-20°	160.1	13.1
20°-30°	222.3	18.2
30°-40°	238.3	19.5
40°-50°	211.1	17.3
50°-60°	159.1	13.0
60°-70°	103.0	8.4
70°-80°	52.9	4.3
80°-90°	16.2	1.3
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°	441.4	36.1
0°-40°	679.8	55.6
0°-60°	1050.0	85.9
0°-90°	1222.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1222.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	634	634	634	634	634	
5°	630	631	623	623	623	60
15°	606	592	564	550	544	170
25°	544	515	476	451	442	251
35°	462	420	373	340	328	289
45°	368	320	264	223	206	284
55°	262	218	160	135	131	233
65°	146	118	92	87	86	145
75°	48	50	48	48	48	56
85°	12	13	15	16	16	14
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	633.8	633.8	633.8	633.8	633.8
2.5°	632.3	634.5	628.6	633.1	634.5
5°	630.1	630.8	622.6	623.4	623.4
7.5°	626.4	624.9	611.5	607.7	607.0
10°	621.1	616.7	597.3	589.9	587.6
12.5°	614.4	606.2	581.7	571.2	566.8
15°	605.5	592.1	563.8	549.6	543.7
17.5°	592.1	575.0	545.2	527.3	520.6
20°	579.4	556.3	524.3	502.0	496.0
22.5°	561.6	537.0	500.5	476.7	469.2
25°	544.4	515.4	475.9	450.6	442.4
27.5°	525.8	493.0	450.6	423.8	413.3
30°	504.2	469.2	425.3	397.0	385.8
32.5°	483.4	446.1	399.2	367.9	356.0
35°	461.8	420.1	373.1	339.6	327.7
37.5°	439.4	395.5	344.1	311.3	295.7
40°	417.1	370.9	318.0	280.8	267.4
42.5°	394.0	345.6	291.2	252.5	235.3
45°	367.9	320.3	263.6	222.7	206.3
47.5°	342.6	295.7	238.3	193.6	178.7
50°	315.8	269.6	211.5	168.3	158.6
52.5°	289.0	242.8	185.4	149.0	144.5
55°	262.2	218.2	160.1	134.8	131.1
57.5°	232.4	192.9	137.8	122.1	119.2
60°	202.6	165.3	118.4	110.2	108.0
62.5°	173.5	141.5	105.0	98.3	96.8
65°	146.0	117.7	92.4	87.1	86.4
67.5°	119.2	96.8	80.4	77.5	76.0
70°	92.4	77.5	69.3	67.8	66.3
72.5°	68.5	62.6	58.8	58.1	57.3
75°	47.7	49.9	48.4	48.4	48.4
77.5°	38.0	38.7	39.5	40.2	39.5
80°	27.6	29.8	30.5	32.0	31.3
82.5°	19.4	20.9	23.1	23.8	24.6
85°	11.9	12.7	14.9	16.4	16.4
87.5°	5.2	6.0	7.4	8.9	9.7
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	16.34	17.83	16.70	18.15	18.46	12.90	14.40	13.26	14.71	15.02
	3H	17.54	18.88	17.92	19.21	19.57	14.60	15.94	14.97	16.27	16.63
	4H	17.85	19.11	18.25	19.46	19.83	15.27	16.53	15.67	16.88	17.26
	6H	18.05	19.21	18.46	19.58	19.97	15.82	16.99	16.23	17.35	17.74
	8H	18.11	19.22	18.54	19.61	20.01	16.04	17.15	16.47	17.54	17.94
	12H	18.14	19.20	18.57	19.58	20.01	16.21	17.27	16.64	17.65	18.08
4H	2H	16.48	17.74	16.88	18.09	18.46	13.56	14.82	13.96	15.17	15.55
	3H	17.88	18.93	18.29	19.33	19.73	15.47	16.52	15.88	16.92	17.32
	4H	18.31	19.25	18.74	19.66	20.10	16.27	17.21	16.70	17.63	18.07
	6H	18.63	19.45	19.09	19.89	20.35	16.96	17.78	17.42	18.22	18.68
	8H	18.73	19.49	19.19	19.94	20.41	17.23	18.00	17.70	18.44	18.91
	12H	18.80	19.48	19.28	19.96	20.43	17.46	18.15	17.95	18.62	19.10
8H	4H	18.43	19.20	18.90	19.64	20.11	16.59	17.35	17.05	17.80	18.26
	6H	18.86	19.49	19.35	19.98	20.46	17.42	18.05	17.91	18.54	19.02
	8H	19.01	19.58	19.53	20.09	20.58	17.78	18.35	18.30	18.86	19.35
	12H	19.14	19.64	19.65	20.14	20.70	18.12	18.62	18.63	19.11	19.68
12H	4H	18.44	19.12	18.92	19.60	20.07	16.62	17.30	17.10	17.78	18.25
	6H	18.88	19.45	19.39	19.96	20.45	17.48	18.04	17.99	18.56	19.04
	8H	19.09	19.59	19.60	20.08	20.65	17.91	18.41	18.42	18.90	19.47