

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: P1060352

Luminaire Tested: S124RDRP-S1195D930-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1060352
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-76)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDRP-S1195D930-X4F0-XX-UDD-WVL-S
Description: DEFINE 4 SILVER REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

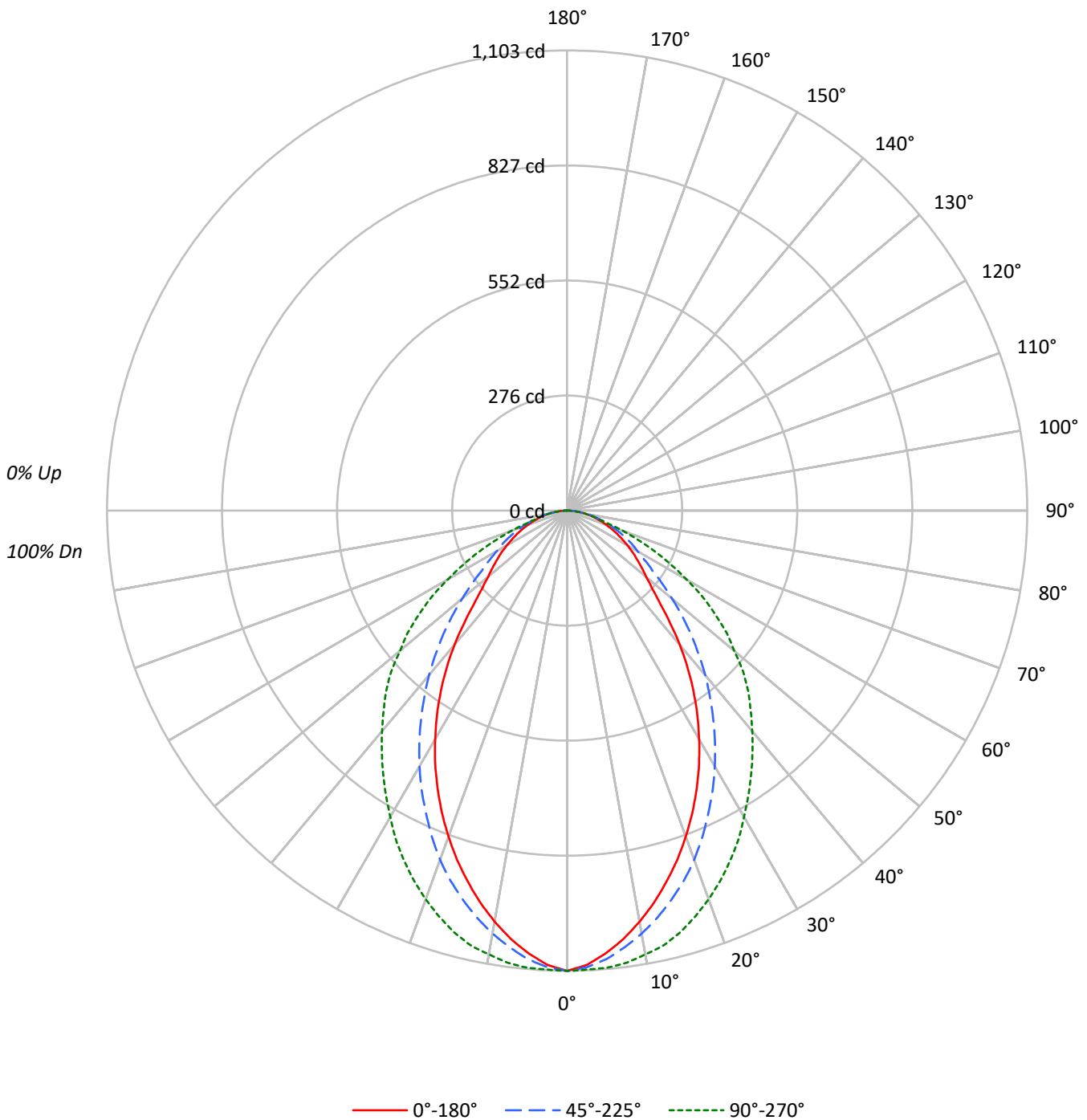
Lumens per Lamp: N/A
Luminaire Lumens: 2008.9 lumens
Efficiency: N/A
Efficacy: 48.1 lumens/watt
Spacing Criteria (0/90/45): 0.93 / 1.15 / 1.1
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.8
Input Voltage (V): 120
Input Current (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	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	108	104	100	97	100	97	94	96	93	91	92	90	89	87																												
2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	75																												
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	65																												
4	87	76	68	62	84	74	67	61	72	66	61	70	64	60	68	63	59	57																												
5	80	69	60	54	78	68	60	54	65	59	54	64	58	53	62	57	52	50																												
6	75	62	54	48	73	62	54	48	60	53	48	58	52	47	57	51	47	45																												
7	70	57	49	43	68	56	49	43	55	48	43	54	47	43	52	47	42	41																												
8	65	53	45	39	64	52	44	39	51	44	39	50	43	39	48	43	39	37																												
9	61	49	41	36	60	48	41	36	47	40	36	46	40	35	45	39	35	34																												
10	58	45	38	33	56	45	38	33	44	37	33	43	37	33	42	36	32	31																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9502	9502	9502
5°	9208	9329	9508
10°	8748	9001	9446
15°	8208	8610	9332
20°	7621	8161	9084
25°	6979	7605	8792
30°	6291	7039	8430
35°	5544	6420	8086
40°	4720	5786	7762
45°	3831	5114	7480
50°	3316	4401	7004
55°	3073	3734	6495
60°	2869	3367	5697
65°	2688	3158	4737
70°	2505	2913	3583
75°	2386	2695	2578
80°	2236	2465	2182
85°	2055	2282	1709

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 7480 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.9	5.1
10°-20°	273.8	13.6
20°-30°	373.9	18.6
30°-40°	391.7	19.5
40°-50°	339.1	16.9
50°-60°	254.8	12.7
60°-70°	164.3	8.2
70°-80°	84.3	4.2
80°-90°	25.2	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°	749.6	37.3
0°-40°	1141.4	56.8
0°-60°	1735.2	86.4
0°-90°	2008.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2008.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1103	1103	1103	1103	1103	
5°	1065	1082	1079	1087	1100	100
15°	921	944	966	1010	1047	258
25°	734	762	800	863	925	337
35°	527	558	611	692	769	329
45°	315	347	420	523	614	248
55°	205	212	249	355	433	184
65°	132	134	155	187	232	131
75°	72	80	81	80	78	76
85°	21	24	23	22	17	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1103.4	1103.4	1103.4	1103.4	1103.4
2.5°	1089.6	1103.4	1095.4	1097.7	1101.1
5°	1065.3	1081.5	1079.2	1087.3	1100.0
7.5°	1035.2	1052.6	1056.0	1074.5	1093.0
10°	1000.5	1020.2	1029.4	1057.2	1080.3
12.5°	962.3	983.2	999.3	1034.0	1067.6
15°	920.7	943.8	965.8	1009.8	1046.8
17.5°	877.9	901.0	930.0	978.5	1020.2
20°	831.6	857.1	890.6	941.5	991.3
22.5°	784.2	810.8	846.7	902.2	960.0
25°	734.5	762.2	800.4	862.9	925.3
27.5°	684.7	712.5	755.3	821.2	889.5
30°	632.7	661.6	707.9	779.6	847.8
32.5°	580.6	611.9	659.3	735.6	808.5
35°	527.4	557.5	610.7	691.7	769.2
37.5°	474.2	505.5	562.1	648.9	729.8
40°	419.9	452.3	514.7	606.1	690.5
42.5°	365.5	400.2	466.1	562.1	651.2
45°	314.6	347.0	419.9	522.8	614.2
47.5°	276.4	298.4	373.6	484.6	572.5
50°	247.5	259.1	328.5	443.0	522.8
52.5°	225.5	233.6	286.9	397.9	482.3
55°	204.7	211.7	248.7	355.1	432.6
57.5°	186.2	189.7	219.8	313.5	385.2
60°	166.6	170.0	195.5	268.3	330.8
62.5°	149.2	151.5	175.8	225.5	281.1
65°	131.9	134.2	155.0	187.4	232.5
67.5°	115.7	119.1	135.3	152.7	185.1
70°	99.5	106.4	115.7	123.8	142.3
72.5°	85.6	92.5	97.2	99.5	100.6
75°	71.7	79.8	81.0	79.8	77.5
77.5°	57.8	64.8	64.8	62.5	60.1
80°	45.1	50.9	49.7	47.4	44.0
82.5°	33.5	37.0	35.9	33.5	30.1
85°	20.8	24.3	23.1	22.0	17.3
87.5°	10.4	13.9	12.7	11.6	6.9
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	14.26	15.74	14.62	16.05	16.37	18.03	19.51	18.39	19.83	20.14
	3H	15.91	17.24	16.29	17.57	17.93	19.14	20.47	19.52	20.80	21.16
	4H	16.58	17.83	16.98	18.17	18.55	19.43	20.68	19.83	21.03	21.41
	6H	17.09	18.24	17.51	18.61	19.00	19.63	20.78	20.04	21.15	21.54
	8H	17.27	18.37	17.70	18.76	19.16	19.68	20.78	20.11	21.17	21.57
	12H	17.40	18.45	17.83	18.83	19.26	19.71	20.76	20.14	21.14	21.57
4H	2H	15.04	16.28	15.44	16.63	17.01	18.19	19.43	18.59	19.78	20.16
	3H	16.90	17.93	17.31	18.33	18.73	19.50	20.53	19.91	20.93	21.33
	4H	17.71	18.64	18.14	19.05	19.49	19.91	20.84	20.34	21.25	21.69
	6H	18.35	19.16	18.81	19.60	20.07	20.22	21.03	20.68	21.47	21.94
	8H	18.58	19.34	19.05	19.78	20.25	20.32	21.07	20.78	21.52	21.98
	12H	18.75	19.43	19.24	19.91	20.38	20.38	21.05	20.86	21.53	22.00
8H	4H	18.06	18.81	18.52	19.26	19.72	20.04	20.80	20.51	21.24	21.71
	6H	18.85	19.47	19.35	19.97	20.44	20.45	21.08	20.95	21.57	22.05
	8H	19.17	19.73	19.69	20.24	20.73	20.60	21.16	21.12	21.67	22.16
	12H	19.44	19.93	19.95	20.42	20.99	20.73	21.22	21.24	21.71	22.28
12H	4H	18.09	18.76	18.57	19.24	19.71	20.05	20.72	20.53	21.20	21.67
	6H	18.91	19.47	19.43	19.98	20.47	20.47	21.03	20.99	21.55	22.03
	8H	19.30	19.79	19.81	20.29	20.85	20.68	21.17	21.19	21.66	22.23