

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: P1060353

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1060353
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-73)
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-W
Description: DEFINE 4 WHITE REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

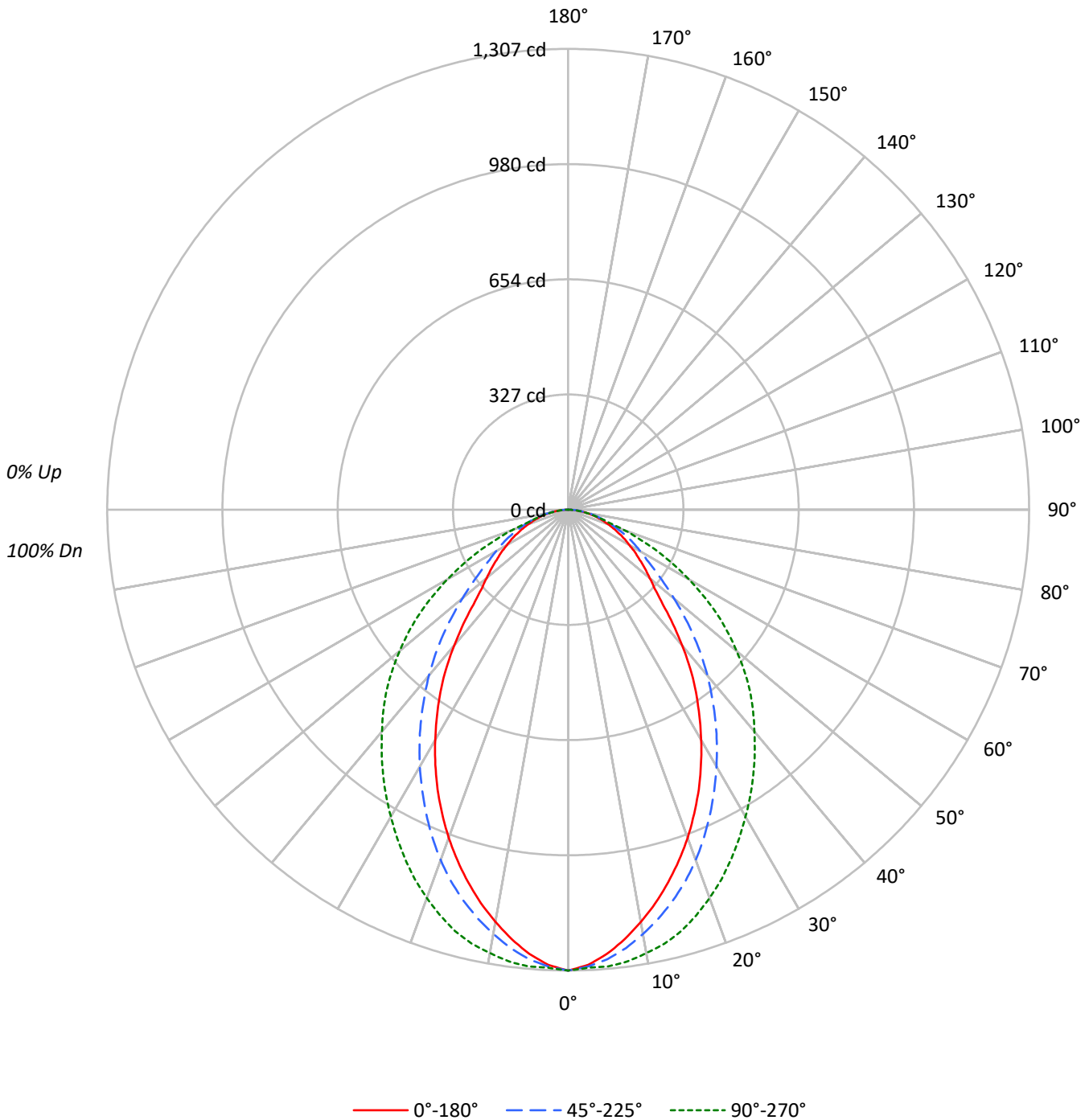
Lumens per Lamp: N/A
Luminaire Lumens: 2398.6 lumens
Efficiency: N/A
Efficacy: 57.4 lumens/watt
Spacing Criteria (0/90/45): 0.93 / 1.15 / 1.11
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

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	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87					87			
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	80	77	75					75			
3	94	84	77	71	91	83	76	70	80	74	69	77	72	68	75	70	67	65					65			
4	86	76	68	62	84	74	67	61	72	66	60	70	64	60	68	63	59	57					57			
5	80	68	60	54	78	67	60	54	65	59	53	63	58	53	62	56	52	50					50			
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	57	51	47	45					45			
7	70	57	49	43	68	56	49	43	55	48	43	53	47	43	52	47	42	40					40			
8	65	53	45	39	64	52	44	39	51	44	39	49	43	39	48	43	38	37					37			
9	61	49	41	36	60	48	41	36	47	40	35	46	40	35	45	39	35	33					33			
10	58	45	38	33	56	45	38	33	44	37	33	43	37	32	42	36	32	31					31			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11256	11256	11256
5°	10930	11059	11239
10°	10378	10682	11167
15°	9756	10230	11035
20°	9074	9689	10738
25°	8320	9045	10387
30°	7499	8362	9996
35°	6640	7649	9619
40°	5644	6905	9232
45°	4620	6100	8875
50°	4044	5238	8353
55°	3717	4516	7729
60°	3446	4064	6813
65°	3230	3818	5703
70°	3029	3495	4280
75°	2848	3194	3117
80°	2638	2926	2638
85°	2401	2855	2282

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 8875 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.8	5.0
10°-20°	325.0	13.6
20°-30°	444.3	18.5
30°-40°	466.9	19.5
40°-50°	405.2	16.9
50°-60°	305.7	12.7
60°-70°	198.1	8.3
70°-80°	101.7	4.2
80°-90°	30.8	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°	890.1	37.1
0°-40°	1357.1	56.6
0°-60°	2068.0	86.2
0°-90°	2398.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2398.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1307	1307	1307	1307	1307	
5°	1264	1282	1279	1290	1300	118
15°	1094	1121	1148	1200	1238	307
25°	876	907	952	1025	1093	401
35°	632	666	728	825	915	393
45°	379	415	501	626	729	299
55°	248	254	301	427	515	223
65°	158	162	187	227	280	158
75°	86	96	96	97	94	91
85°	24	30	29	28	23	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1307.2	1307.2	1307.2	1307.2	1307.2
2.5°	1292.1	1308.3	1296.8	1299.1	1300.2
5°	1264.4	1281.7	1279.4	1289.8	1300.2
7.5°	1228.5	1249.3	1254.0	1274.8	1292.1
10°	1186.9	1210.0	1221.6	1255.1	1277.1
12.5°	1142.9	1166.1	1186.9	1229.7	1260.9
15°	1094.3	1120.9	1147.5	1199.6	1237.8
17.5°	1043.4	1071.2	1104.7	1161.4	1206.5
20°	990.2	1018.0	1057.3	1118.6	1171.8
22.5°	933.5	964.8	1006.4	1072.4	1134.8
25°	875.7	906.9	952.0	1024.9	1093.2
27.5°	815.5	847.9	896.5	977.5	1050.4
30°	754.2	788.9	841.0	926.6	1005.3
32.5°	691.8	728.8	784.3	875.7	961.3
35°	631.6	666.3	727.6	824.8	915.0
37.5°	569.1	603.8	669.8	775.1	868.8
40°	502.1	540.2	614.3	723.0	821.3
42.5°	439.6	477.8	557.6	673.3	776.2
45°	379.4	415.3	500.9	625.8	728.8
47.5°	333.2	358.6	444.2	579.6	677.9
50°	301.9	313.5	391.0	528.7	623.5
52.5°	274.2	283.4	342.4	477.8	570.3
55°	247.6	254.5	300.8	426.9	514.8
57.5°	224.4	227.9	263.8	376.0	454.6
60°	200.1	204.8	236.0	323.9	395.6
62.5°	180.5	182.8	211.7	274.2	336.6
65°	158.5	162.0	187.4	226.7	279.9
67.5°	138.8	144.6	162.0	185.1	220.9
70°	120.3	128.4	138.8	150.4	170.0
72.5°	103.0	112.2	118.0	122.6	119.2
75°	85.6	96.0	96.0	97.2	93.7
77.5°	69.4	78.7	77.5	76.3	71.7
80°	53.2	61.3	59.0	57.8	53.2
82.5°	39.3	45.1	42.8	41.6	35.9
85°	24.3	30.1	28.9	27.8	23.1
87.5°	11.6	17.4	16.2	15.0	10.4
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	14.91	16.40	15.28	16.71	17.03	18.65	20.14	19.02	20.45	20.77
	3H	16.58	17.91	16.96	18.24	18.60	19.78	21.11	20.16	21.44	21.80
	4H	17.25	18.50	17.65	18.85	19.23	20.07	21.32	20.47	21.67	22.05
	6H	17.76	18.91	18.17	19.28	19.67	20.27	21.43	20.69	21.79	22.19
	8H	17.93	19.03	18.36	19.42	19.82	20.33	21.43	20.76	21.82	22.22
	12H	18.05	19.10	18.48	19.48	19.91	20.36	21.41	20.79	21.79	22.22
4H	2H	15.71	16.96	16.11	17.30	17.68	18.82	20.07	19.22	20.42	20.80
	3H	17.58	18.61	17.99	19.01	19.42	20.15	21.18	20.56	21.58	21.99
	4H	18.38	19.31	18.82	19.73	20.17	20.57	21.50	21.00	21.91	22.35
	6H	19.03	19.84	19.48	20.28	20.74	20.89	21.70	21.34	22.14	22.60
	8H	19.25	20.01	19.71	20.45	20.92	20.98	21.74	21.44	22.18	22.65
	12H	19.41	20.09	19.90	20.57	21.04	21.05	21.73	21.54	22.21	22.68
8H	4H	18.73	19.49	19.19	19.93	20.40	20.70	21.46	21.16	21.90	22.37
	6H	19.52	20.14	20.02	20.64	21.11	21.12	21.74	21.61	22.23	22.71
	8H	19.84	20.40	20.35	20.91	21.40	21.27	21.83	21.79	22.35	22.83
	12H	20.10	20.60	20.61	21.09	21.66	21.41	21.91	21.92	22.40	22.97
12H	4H	18.76	19.44	19.24	19.91	20.39	20.70	21.38	21.19	21.86	22.33
	6H	19.58	20.14	20.10	20.65	21.14	21.14	21.70	21.65	22.21	22.70
	8H	19.97	20.46	20.48	20.96	21.52	21.35	21.84	21.86	22.34	22.90