

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: P1060315

Luminaire Tested: S124RDRP-S1195D835-X4F0-XX-UDD-WVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1060315
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-S1195D835-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: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

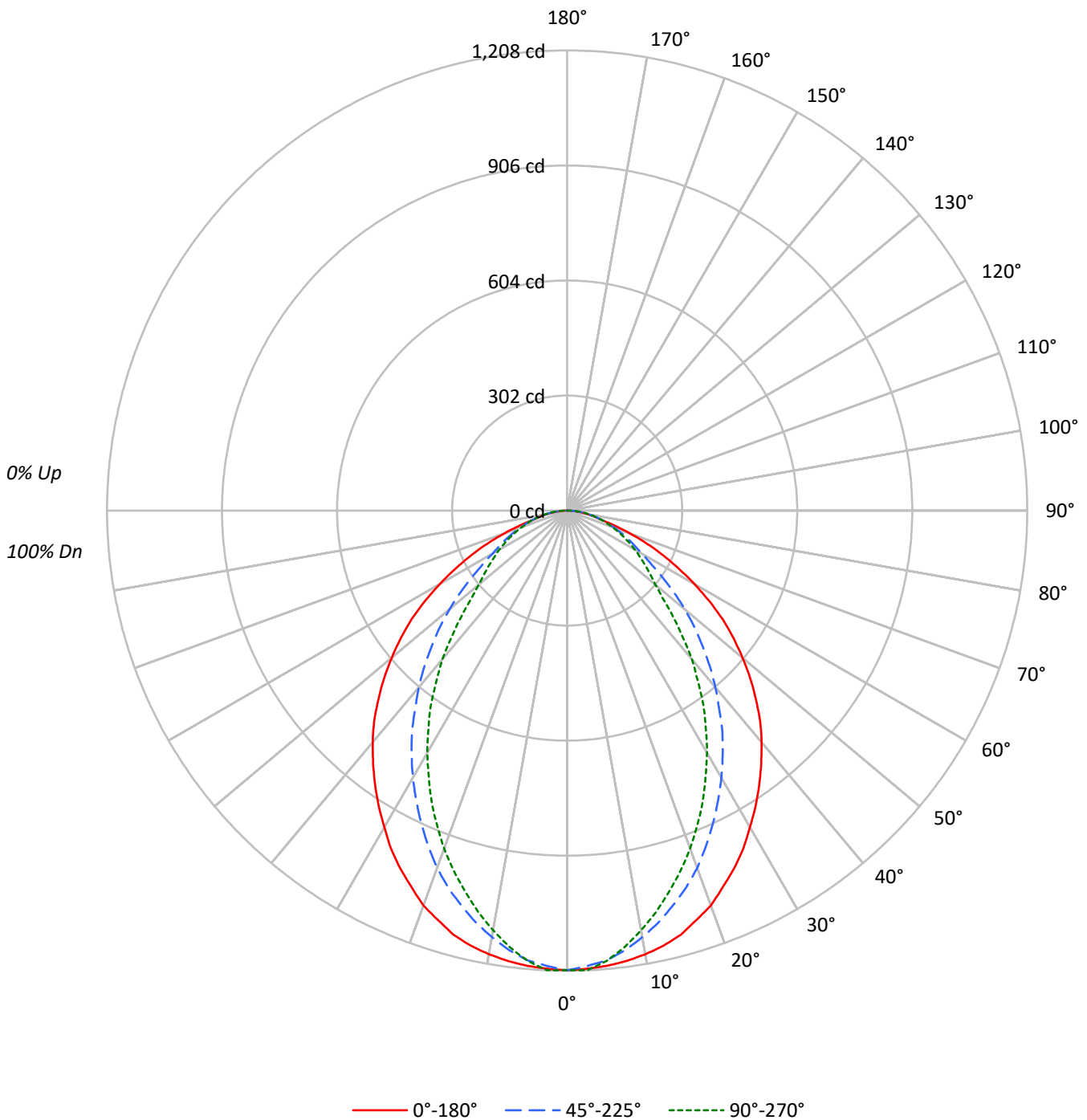
Lumens per Lamp: N/A
Luminaire Lumens: 2326.6 lumens
Efficiency: N/A
Efficacy: 55.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.96 / 1.12
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	10390	10390	10390
5°	10369	10247	10259
10°	10340	9944	9782
15°	10276	9568	9228
20°	10109	9147	8653
25°	9848	8608	8002
30°	9545	8050	7303
35°	9241	7468	6559
40°	8925	6805	5722
45°	8529	6112	4784
50°	8054	5395	4046
55°	7493	4576	3746
60°	6643	3882	3541
65°	5662	3582	3352
70°	4426	3321	3177
75°	3018	3068	3068
80°	2603	2881	2956
85°	2243	2806	3083

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 8529 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.3	4.8
10°-20°	304.9	13.1
20°-30°	423.3	18.2
30°-40°	453.7	19.5
40°-50°	401.9	17.3
50°-60°	302.9	13.0
60°-70°	196.1	8.4
70°-80°	100.7	4.3
80°-90°	30.9	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°	840.4	36.1
0°-40°	1294.1	55.6
0°-60°	1998.9	85.9
0°-90°	2326.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2326.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1207	1207	1207	1207	1207	
5°	1200	1201	1185	1187	1187	114
15°	1153	1127	1073	1046	1035	324
25°	1036	981	906	858	842	477
35°	879	800	710	647	624	550
45°	700	610	502	424	393	540
55°	499	415	305	257	250	443
65°	278	224	176	166	164	276
75°	91	95	92	92	92	107
85°	23	24	28	31	31	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1206.6	1206.6	1206.6	1206.6	1206.6
2.5°	1203.8	1208.0	1196.7	1205.2	1208.0
5°	1199.5	1201.0	1185.4	1186.8	1186.8
7.5°	1192.5	1189.6	1164.1	1157.0	1155.6
10°	1182.5	1174.0	1137.2	1123.0	1118.7
12.5°	1169.8	1154.2	1107.4	1087.5	1079.0
15°	1152.7	1127.2	1073.3	1046.4	1035.1
17.5°	1127.2	1094.6	1037.9	1003.9	991.1
20°	1103.1	1059.2	998.2	955.7	944.3
22.5°	1069.1	1022.3	952.8	907.5	893.3
25°	1036.5	981.2	906.0	857.8	842.2
27.5°	1001.0	938.6	857.8	806.8	786.9
30°	959.9	893.3	809.6	755.7	734.5
32.5°	920.2	849.3	760.0	700.4	677.8
35°	879.1	799.7	710.4	646.6	623.9
37.5°	836.6	752.9	655.1	592.7	562.9
40°	794.0	706.1	605.4	534.5	509.0
42.5°	750.1	657.9	554.4	480.7	448.1
45°	700.4	609.7	501.9	424.0	392.8
47.5°	652.2	562.9	453.7	368.7	340.3
50°	601.2	513.3	402.7	320.4	302.0
52.5°	550.1	462.2	353.1	283.6	275.1
55°	499.1	415.4	304.8	256.6	249.5
57.5°	442.4	367.2	262.3	232.5	226.9
60°	385.7	314.8	225.4	209.8	205.6
62.5°	330.4	269.4	199.9	187.2	184.3
65°	277.9	224.0	175.8	165.9	164.5
67.5°	226.9	184.3	153.1	147.5	144.6
70°	175.8	147.5	131.9	129.0	126.2
72.5°	130.4	119.1	112.0	110.6	109.2
75°	90.7	95.0	92.2	92.2	92.2
77.5°	72.3	73.7	75.1	76.6	75.1
80°	52.5	56.7	58.1	61.0	59.6
82.5°	36.9	39.7	44.0	45.4	46.8
85°	22.7	24.1	28.4	31.2	31.2
87.5°	9.9	11.3	14.2	17.0	18.4
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	18.57	20.07	18.94	20.38	20.70	15.14	16.63	15.50	16.95	17.26
	3H	19.78	21.12	20.16	21.45	21.81	16.83	18.18	17.21	18.50	18.87
	4H	20.08	21.34	20.48	21.69	22.07	17.51	18.77	17.91	19.12	19.50
	6H	20.29	21.45	20.70	21.82	22.21	18.06	19.22	18.47	19.59	19.98
	8H	20.34	21.45	20.77	21.84	22.24	18.28	19.38	18.70	19.77	20.18
	12H	20.38	21.44	20.81	21.82	22.25	18.45	19.51	18.88	19.89	20.32
4H	2H	18.71	19.97	19.11	20.32	20.70	15.80	17.06	16.20	17.40	17.78
	3H	20.12	21.16	20.53	21.56	21.96	17.71	18.75	18.12	19.15	19.55
	4H	20.54	21.48	20.98	21.90	22.34	18.51	19.45	18.94	19.86	20.30
	6H	20.87	21.68	21.32	22.13	22.59	19.20	20.01	19.65	20.46	20.92
	8H	20.96	21.73	21.43	22.17	22.64	19.47	20.23	19.93	20.68	21.15
	12H	21.04	21.72	21.52	22.20	22.67	19.70	20.38	20.18	20.86	21.33
8H	4H	20.67	21.43	21.13	21.88	22.35	18.83	19.59	19.29	20.03	20.50
	6H	21.09	21.72	21.59	22.21	22.69	19.65	20.29	20.15	20.78	21.26
	8H	21.25	21.82	21.76	22.33	22.81	20.02	20.59	20.53	21.10	21.59
	12H	21.38	21.88	21.89	22.37	22.94	20.35	20.86	20.86	21.35	21.91
12H	4H	20.68	21.36	21.16	21.84	22.31	18.85	19.54	19.34	20.02	20.49
	6H	21.12	21.68	21.63	22.19	22.68	19.71	20.28	20.23	20.79	21.28
	8H	21.32	21.83	21.83	22.32	22.88	20.15	20.65	20.66	21.14	21.71