

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: P1060360

Luminaire Tested: S124RDRP-S1195D935-X4F0-XX-UDD-WVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1060360
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-S1195D935-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, 90 CRI LEDS
Ballast/Driver: -

Summary

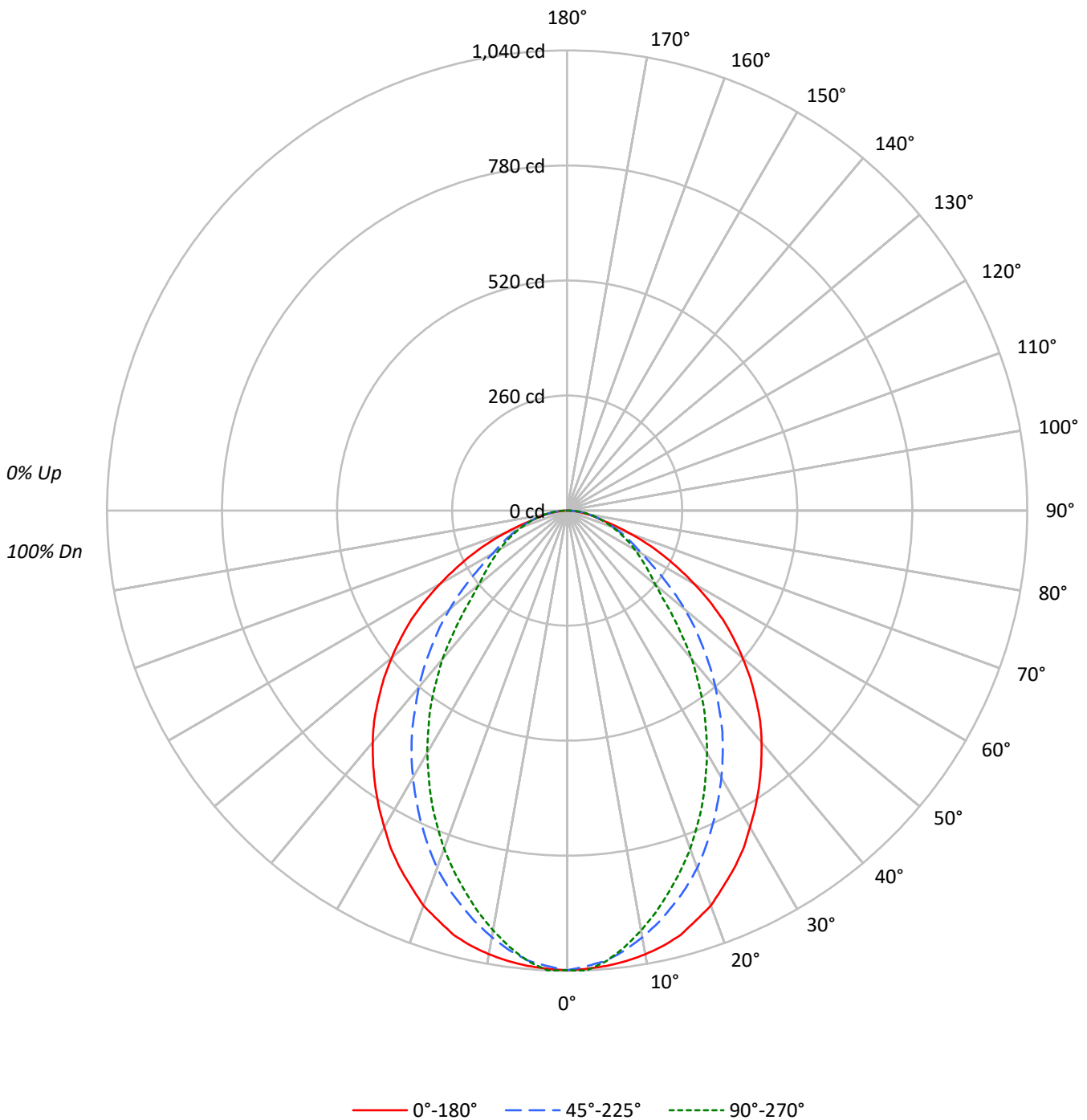
Lumens per Lamp: N/A
Luminaire Lumens: 2003.2 lumens
Efficiency: N/A
Efficacy: 47.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.96 / 1.12
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8946	8946	8946
5°	8928	8822	8832
10°	8903	8561	8422
15°	8848	8238	7945
20°	8704	7875	7451
25°	8479	7412	6890
30°	8218	6931	6288
35°	7957	6429	5647
40°	7685	5860	4927
45°	7345	5263	4119
50°	6934	4645	3483
55°	6451	3941	3226
60°	5720	3343	3048
65°	4876	3085	2885
70°	3812	2858	2737
75°	2598	2642	2642
80°	2241	2484	2544
85°	1927	2411	2658

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7345 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.7	4.8
10°-20°	262.5	13.1
20°-30°	364.4	18.2
30°-40°	390.6	19.5
40°-50°	346.1	17.3
50°-60°	260.8	13.0
60°-70°	168.9	8.4
70°-80°	86.7	4.3
80°-90°	26.6	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°	723.6	36.1
0°-40°	1114.2	55.6
0°-60°	1721.1	85.9
0°-90°	2003.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2003.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1039	1039	1039	1039	1039	
5°	1033	1034	1021	1022	1022	98
15°	992	970	924	901	891	279
25°	892	845	780	739	725	411
35°	757	688	612	557	537	473
45°	603	525	432	365	338	465
55°	430	358	262	221	215	382
65°	239	193	151	143	142	237
75°	78	82	79	79	79	92
85°	20	21	24	27	27	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1038.9	1038.9	1038.9	1038.9	1038.9
2.5°	1036.5	1040.1	1030.4	1037.7	1040.1
5°	1032.8	1034.0	1020.6	1021.8	1021.8
7.5°	1026.7	1024.3	1002.3	996.2	995.0
10°	1018.2	1010.8	979.1	966.9	963.2
12.5°	1007.2	993.7	953.4	936.4	929.0
15°	992.5	970.5	924.1	901.0	891.2
17.5°	970.5	942.5	893.6	864.3	853.3
20°	949.8	911.9	859.4	822.8	813.1
22.5°	920.5	880.2	820.4	781.3	769.1
25°	892.4	844.8	780.1	738.6	725.2
27.5°	861.9	808.2	738.6	694.6	677.5
30°	826.5	769.1	697.1	650.7	632.4
32.5°	792.3	731.3	654.4	603.1	583.5
35°	756.9	688.5	611.6	556.7	537.2
37.5°	720.3	648.2	564.0	510.3	484.7
40°	683.7	608.0	521.3	460.2	438.3
42.5°	645.8	566.5	477.3	413.9	385.8
45°	603.1	524.9	432.2	365.0	338.2
47.5°	561.6	484.7	390.7	317.4	293.0
50°	517.6	441.9	346.7	275.9	260.0
52.5°	473.7	398.0	304.0	244.2	236.8
55°	429.7	357.7	262.5	221.0	214.9
57.5°	380.9	316.2	225.8	200.2	195.3
60°	332.1	271.0	194.1	180.7	177.0
62.5°	284.4	232.0	172.1	161.1	158.7
65°	239.3	192.9	151.4	142.8	141.6
67.5°	195.3	158.7	131.8	127.0	124.5
70°	151.4	127.0	113.5	111.1	108.7
72.5°	112.3	102.5	96.4	95.2	94.0
75°	78.1	81.8	79.4	79.4	79.4
77.5°	62.3	63.5	64.7	65.9	64.7
80°	45.2	48.8	50.1	52.5	51.3
82.5°	31.7	34.2	37.8	39.1	40.3
85°	19.5	20.8	24.4	26.9	26.9
87.5°	8.5	9.8	12.2	14.6	15.9
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	18.05	19.55	18.42	19.86	20.18	14.62	16.11	14.98	16.43	16.74
	3H	19.26	20.60	19.64	20.93	21.29	16.31	17.66	16.69	17.98	18.35
	4H	19.56	20.82	19.96	21.17	21.55	16.99	18.25	17.39	18.60	18.98
	6H	19.77	20.93	20.18	21.30	21.69	17.54	18.70	17.95	19.07	19.46
	8H	19.82	20.93	20.25	21.32	21.72	17.76	18.86	18.18	19.25	19.66
	12H	19.86	20.92	20.29	21.30	21.73	17.93	18.99	18.36	19.37	19.80
4H	2H	18.19	19.45	18.59	19.80	20.18	15.28	16.54	15.68	16.88	17.26
	3H	19.60	20.64	20.01	21.04	21.44	17.19	18.23	17.60	18.63	19.03
	4H	20.02	20.96	20.46	21.38	21.82	17.99	18.93	18.42	19.35	19.78
	6H	20.35	21.16	20.80	21.61	22.07	18.68	19.49	19.13	19.94	20.40
	8H	20.44	21.21	20.91	21.65	22.12	18.95	19.71	19.41	20.16	20.63
	12H	20.52	21.20	21.00	21.68	22.15	19.18	19.86	19.66	20.34	20.81
8H	4H	20.15	20.91	20.61	21.36	21.83	18.31	19.07	18.77	19.51	19.98
	6H	20.57	21.20	21.07	21.69	22.17	19.13	19.77	19.63	20.26	20.74
	8H	20.73	21.30	21.24	21.81	22.29	19.50	20.07	20.01	20.58	21.07
	12H	20.86	21.36	21.37	21.85	22.42	19.84	20.34	20.35	20.83	21.39
12H	4H	20.16	20.84	20.64	21.32	21.79	18.33	19.02	18.82	19.50	19.97
	6H	20.60	21.16	21.11	21.67	22.16	19.19	19.76	19.71	20.27	20.76
	8H	20.80	21.31	21.31	21.80	22.36	19.63	20.13	20.14	20.62	21.19