

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: P1059057

Luminaire Tested: S123RDRP-S1000D930-X4F0-XX-UDD-WVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1059057
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-64)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDRP-S1000D930-X4F0-XX-UDD-WVL-W
Description: DEFINE 3 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

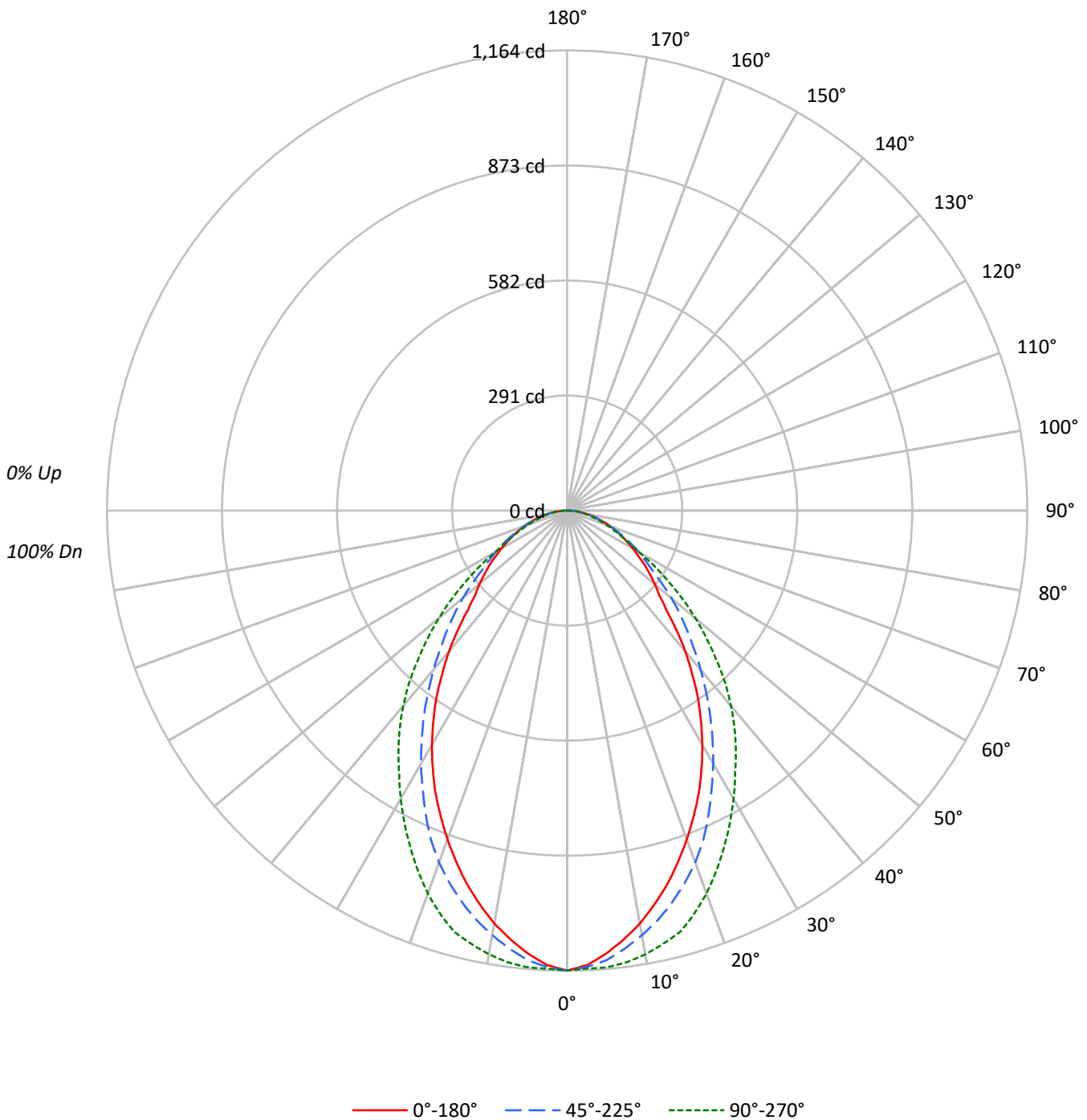
Lumens per Lamp: N/A
Luminaire Lumens: 2044.5 lumens
Efficiency: N/A
Efficacy: 58.4 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.1 / 1.09
Luminous Opening: Rectangular (W 0.23' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 35
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	101	97	100	97	94	96	94	92	92	91	89					87				
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77					75				
3	94	85	77	72	92	83	76	71	80	75	70	78	73	69	75	71	68					66				
4	87	76	69	63	85	75	68	62	73	66	61	70	65	61	68	64	60					58				
5	81	69	61	55	79	68	61	55	66	59	54	64	58	54	62	57	53					51				
6	75	63	55	49	73	62	55	49	61	54	49	59	53	48	57	52	48					46				
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	48	43					41				
8	66	53	46	40	64	53	45	40	51	45	40	50	44	40	49	44	39					38				
9	62	49	42	37	60	49	42	37	48	41	36	47	41	36	46	40	36					34				
10	58	46	39	34	57	45	38	34	45	38	34	44	38	33	43	37	33					32				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13662	13662	13662
5°	13267	13455	13667
10°	12644	13001	13587
15°	11893	12476	13414
20°	11061	11836	12875
25°	10210	10975	12169
30°	9273	10020	11418
35°	8254	9042	10665
40°	7122	8058	9884
45°	5887	7134	8863
50°	5287	6293	7738
55°	4899	5370	6416
60°	4516	4892	4915
65°	4201	4423	4118
70°	3955	4024	3608
75°	3725	3589	3180
80°	3523	3253	2982
85°	3368	3638	3368

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 8863 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.8	5.3
10°-20°	290.3	14.2
20°-30°	392.8	19.2
30°-40°	403.6	19.7
40°-50°	339.0	16.6
50°-60°	243.0	11.9
60°-70°	154.7	7.6
70°-80°	85.0	4.2
80°-90°	28.3	1.4
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°	790.8	38.7
0°-40°	1194.5	58.4
0°-60°	1776.4	86.9
0°-90°	2044.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2044.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1164	1164	1164	1164	1164	
5°	1126	1146	1142	1150	1160	105
15°	978	1005	1026	1070	1103	274
25°	788	818	847	893	939	361
35°	576	607	631	687	744	358
45°	354	386	430	492	534	280
55°	239	244	262	297	313	214
65°	151	160	159	150	148	151
75°	82	90	79	73	70	87
85°	25	26	27	28	25	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1163.5	1163.5	1163.5	1163.5	1163.5
2.5°	1150.5	1166.5	1155.5	1156.5	1159.5
5°	1125.5	1145.5	1141.5	1149.5	1159.5
7.5°	1094.4	1116.5	1117.5	1136.5	1152.5
10°	1060.4	1083.4	1090.4	1119.5	1139.5
12.5°	1020.3	1045.4	1060.4	1096.4	1122.5
15°	978.3	1005.3	1026.3	1070.4	1103.4
17.5°	932.2	961.3	988.3	1035.4	1069.4
20°	885.2	916.2	947.2	991.3	1030.3
22.5°	836.1	868.1	900.2	943.2	986.3
25°	788.0	818.1	847.1	893.2	939.2
27.5°	736.0	767.0	792.0	843.1	891.2
30°	683.9	714.9	739.0	792.0	842.1
32.5°	629.8	661.9	683.9	739.0	791.0
35°	575.8	606.8	630.8	686.9	744.0
37.5°	518.7	552.7	576.8	639.8	695.9
40°	464.6	496.7	525.7	591.8	644.8
42.5°	408.5	441.6	474.6	542.7	591.8
45°	354.5	385.5	429.6	491.6	533.7
47.5°	315.4	335.4	386.5	438.6	478.6
50°	289.4	297.4	344.5	390.5	423.6
52.5°	263.3	269.4	301.4	343.4	368.5
55°	239.3	244.3	262.3	297.4	313.4
57.5°	213.3	218.3	233.3	253.3	262.3
60°	192.3	196.3	208.3	211.3	209.3
62.5°	171.2	177.2	183.2	176.2	173.2
65°	151.2	160.2	159.2	150.2	148.2
67.5°	133.2	142.2	137.2	128.2	125.2
70°	115.2	124.2	117.2	108.1	105.1
72.5°	98.1	108.1	97.1	89.1	87.1
75°	82.1	90.1	79.1	73.1	70.1
77.5°	67.1	73.1	63.1	58.1	56.1
80°	52.1	56.1	48.1	45.1	44.1
82.5°	38.0	40.1	35.0	37.0	36.0
85°	25.0	26.0	27.0	28.0	25.0
87.5°	12.0	17.0	17.0	16.0	13.0
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	16.27	17.73	16.63	18.05	18.36	17.34	18.80	17.70	19.11	19.43
	3H	17.97	19.28	18.35	19.61	19.97	18.42	19.73	18.80	20.06	20.42
	4H	18.62	19.85	19.02	20.20	20.58	18.82	20.05	19.22	20.40	20.78
	6H	19.12	20.26	19.54	20.63	21.02	19.13	20.27	19.55	20.64	21.03
	8H	19.30	20.37	19.72	20.76	21.17	19.27	20.35	19.70	20.74	21.14
	12H	19.42	20.45	19.85	20.84	21.27	19.39	20.42	19.82	20.80	21.23
4H	2H	16.87	18.10	17.27	18.45	18.83	17.74	18.97	18.14	19.32	19.70
	3H	18.80	19.82	19.21	20.22	20.62	19.06	20.08	19.47	20.48	20.88
	4H	19.61	20.53	20.04	20.94	21.38	19.58	20.49	20.01	20.91	21.35
	6H	20.26	21.05	20.72	21.50	21.96	20.01	20.81	20.47	21.25	21.71
	8H	20.48	21.22	20.94	21.67	22.14	20.20	20.95	20.67	21.39	21.86
	12H	20.65	21.32	21.14	21.80	22.27	20.38	21.05	20.87	21.53	22.00
8H	4H	19.85	20.59	20.31	21.04	21.50	19.82	20.57	20.29	21.01	21.48
	6H	20.64	21.25	21.13	21.74	22.22	20.37	20.99	20.87	21.48	21.96
	8H	20.95	21.50	21.46	22.01	22.50	20.65	21.20	21.16	21.71	22.20
	12H	21.22	21.71	21.73	22.20	22.76	20.94	21.43	21.45	21.92	22.49
12H	4H	19.86	20.52	20.34	21.00	21.47	19.85	20.52	20.33	20.99	21.47
	6H	20.67	21.22	21.19	21.73	22.22	20.43	20.98	20.94	21.49	21.98
	8H	21.05	21.53	21.56	22.03	22.59	20.77	21.25	21.28	21.75	22.31