

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: P1059084

Luminaire Tested: S123RDRP-S1000D950-X4F0-XX-UDD-WVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1059084
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-S1000D950-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: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

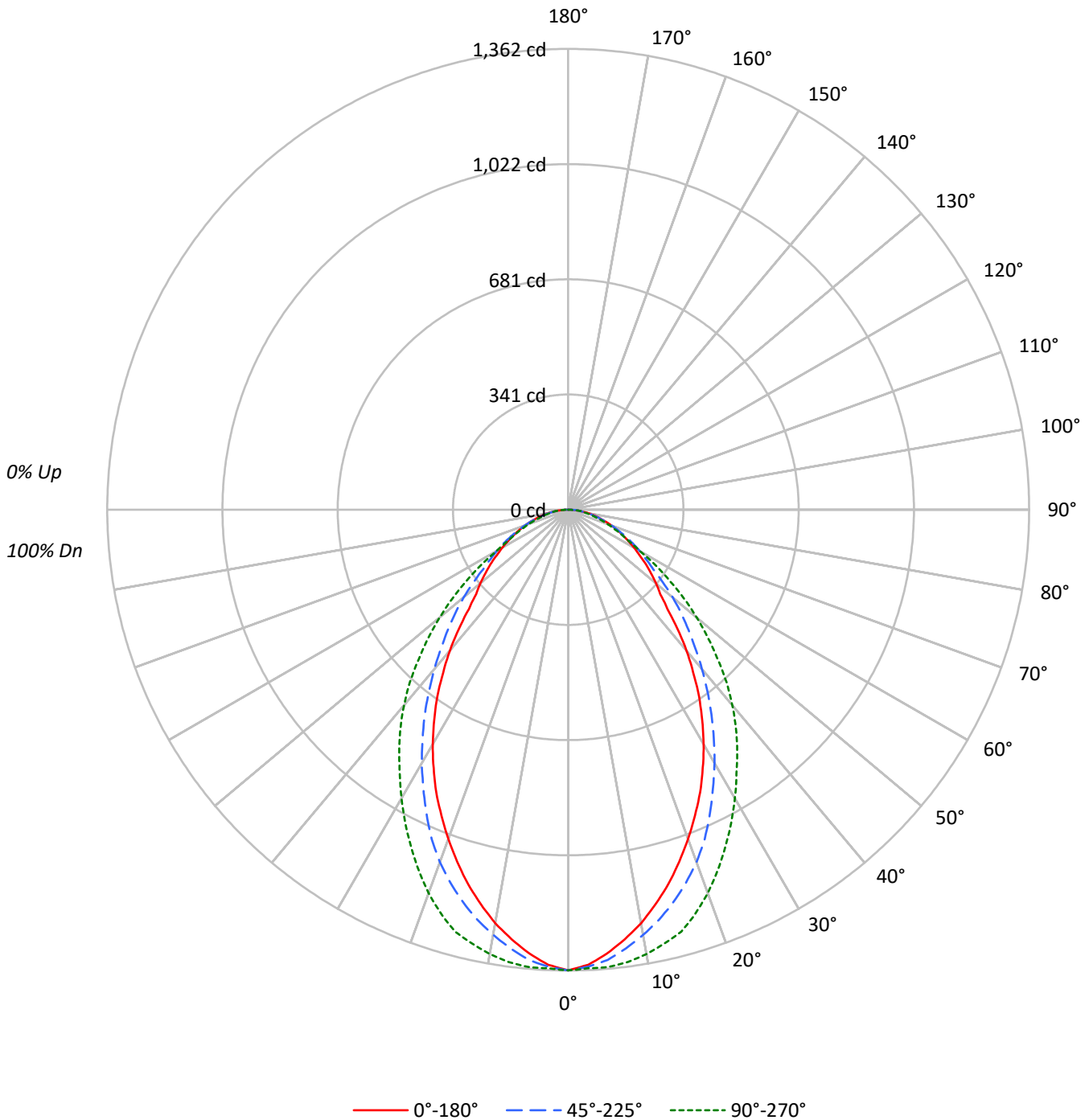
Lumens per Lamp: N/A
Luminaire Lumens: 2392.4 lumens
Efficiency: N/A
Efficacy: 68.4 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.1 / 1.09
Luminous Opening: Rectangular (W 0.23' x L: 4' x H: 0')
CIE Type: Direct

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°	15987	15987	15987
5°	15523	15744	15993
10°	14795	15213	15898
15°	13916	14600	15697
20°	12942	13851	15065
25°	11947	12842	14239
30°	10850	11724	13361
35°	9657	10581	12479
40°	8333	9429	11565
45°	6888	8346	10371
50°	6186	7364	9054
55°	5732	6285	7507
60°	5284	5723	5751
65°	4915	5176	4818
70°	4625	4707	4223
75°	4360	4201	3720
80°	4118	3800	3489
85°	3948	4257	3948

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 10371 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.1	5.3
10°-20°	339.7	14.2
20°-30°	459.6	19.2
30°-40°	472.3	19.7
40°-50°	396.6	16.6
50°-60°	284.4	11.9
60°-70°	181.1	7.6
70°-80°	99.5	4.2
80°-90°	33.2	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°	925.4	38.7
0°-40°	1397.7	58.4
0°-60°	2078.7	86.9
0°-90°	2392.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2392.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1362	1362	1362	1362	1362	
5°	1317	1340	1336	1345	1357	123
15°	1145	1176	1201	1252	1291	321
25°	922	957	991	1045	1099	423
35°	674	710	738	804	870	419
45°	415	451	503	575	624	327
55°	280	286	307	348	367	250
65°	177	188	186	176	173	176
75°	96	105	93	86	82	102
85°	29	30	32	33	29	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1361.5	1361.5	1361.5	1361.5	1361.5
2.5°	1346.2	1365.0	1352.1	1353.3	1356.8
5°	1316.9	1340.4	1335.7	1345.1	1356.8
7.5°	1280.6	1306.4	1307.6	1329.8	1348.6
10°	1240.8	1267.7	1275.9	1309.9	1333.3
12.5°	1193.9	1223.2	1240.8	1283.0	1313.4
15°	1144.7	1176.3	1201.0	1252.5	1291.2
17.5°	1090.8	1124.8	1156.4	1211.5	1251.3
20°	1035.7	1072.1	1108.4	1159.9	1205.6
22.5°	978.3	1015.8	1053.3	1103.7	1154.1
25°	922.1	957.2	991.2	1045.1	1099.0
27.5°	861.2	897.5	926.8	986.5	1042.8
30°	800.2	836.6	864.7	926.8	985.4
32.5°	737.0	774.5	800.2	864.7	925.6
35°	673.7	710.0	738.1	803.8	870.5
37.5°	606.9	646.8	674.9	748.7	814.3
40°	543.6	581.1	615.1	692.5	754.5
42.5°	478.0	516.7	555.4	635.0	692.5
45°	414.8	451.1	502.6	575.3	624.5
47.5°	369.1	392.5	452.3	513.2	560.1
50°	338.6	348.0	403.1	456.9	495.6
52.5°	308.1	315.2	352.7	401.9	431.2
55°	280.0	285.9	307.0	348.0	366.7
57.5°	249.6	255.4	273.0	296.4	307.0
60°	225.0	229.6	243.7	247.2	244.9
62.5°	200.4	207.4	214.4	206.2	202.7
65°	176.9	187.5	186.3	175.7	173.4
67.5°	155.8	166.4	160.5	150.0	146.5
70°	134.7	145.3	137.1	126.5	123.0
72.5°	114.8	126.5	113.7	104.3	101.9
75°	96.1	105.4	92.6	85.5	82.0
77.5°	78.5	85.5	73.8	68.0	65.6
80°	60.9	65.6	56.2	52.7	51.6
82.5°	44.5	46.9	41.0	43.4	42.2
85°	29.3	30.5	31.6	32.8	29.3
87.5°	14.1	19.9	19.9	18.7	15.2
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	16.81	18.28	17.18	18.59	18.91	17.88	19.35	18.25	19.66	19.98
	3H	18.51	19.82	18.89	20.15	20.51	18.97	20.28	19.35	20.61	20.97
	4H	19.17	20.39	19.57	20.74	21.12	19.37	20.60	19.77	20.95	21.33
	6H	19.67	20.80	20.08	21.17	21.56	19.68	20.81	20.09	21.18	21.57
	8H	19.84	20.92	20.27	21.31	21.71	19.82	20.89	20.24	21.28	21.69
	12H	19.97	21.00	20.40	21.38	21.81	19.94	20.97	20.37	21.35	21.78
4H	2H	17.42	18.64	17.82	18.99	19.37	18.29	19.52	18.69	19.86	20.24
	3H	19.34	20.36	19.76	20.76	21.16	19.61	20.62	20.02	21.02	21.43
	4H	20.16	21.07	20.59	21.49	21.93	20.12	21.04	20.56	21.46	21.90
	6H	20.80	21.60	21.26	22.04	22.50	20.56	21.35	21.02	21.80	22.26
	8H	21.02	21.77	21.49	22.21	22.68	20.75	21.49	21.21	21.94	22.41
	12H	21.20	21.86	21.68	22.34	22.81	20.93	21.60	21.41	22.07	22.55
8H	4H	20.39	21.14	20.86	21.58	22.05	20.37	21.11	20.84	21.56	22.03
	6H	21.18	21.80	21.68	22.29	22.77	20.92	21.53	21.42	22.03	22.50
	8H	21.49	22.05	22.01	22.56	23.05	21.20	21.75	21.71	22.26	22.75
	12H	21.76	22.25	22.27	22.74	23.31	21.49	21.98	22.00	22.47	23.04
12H	4H	20.40	21.07	20.89	21.55	22.02	20.40	21.06	20.88	21.54	22.01
	6H	21.21	21.77	21.73	22.28	22.77	20.97	21.52	21.49	22.04	22.52
	8H	21.59	22.08	22.10	22.57	23.14	21.31	21.80	21.82	22.29	22.86