

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: P1057851

Luminaire Tested: S122RDRP-S1005D935-X4F0-XX-UDD-WVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1057851
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-55)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDRP-S1005D935-X4F0-XX-UDD-WVL-W
Description: DEFINE 2 WHITE REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

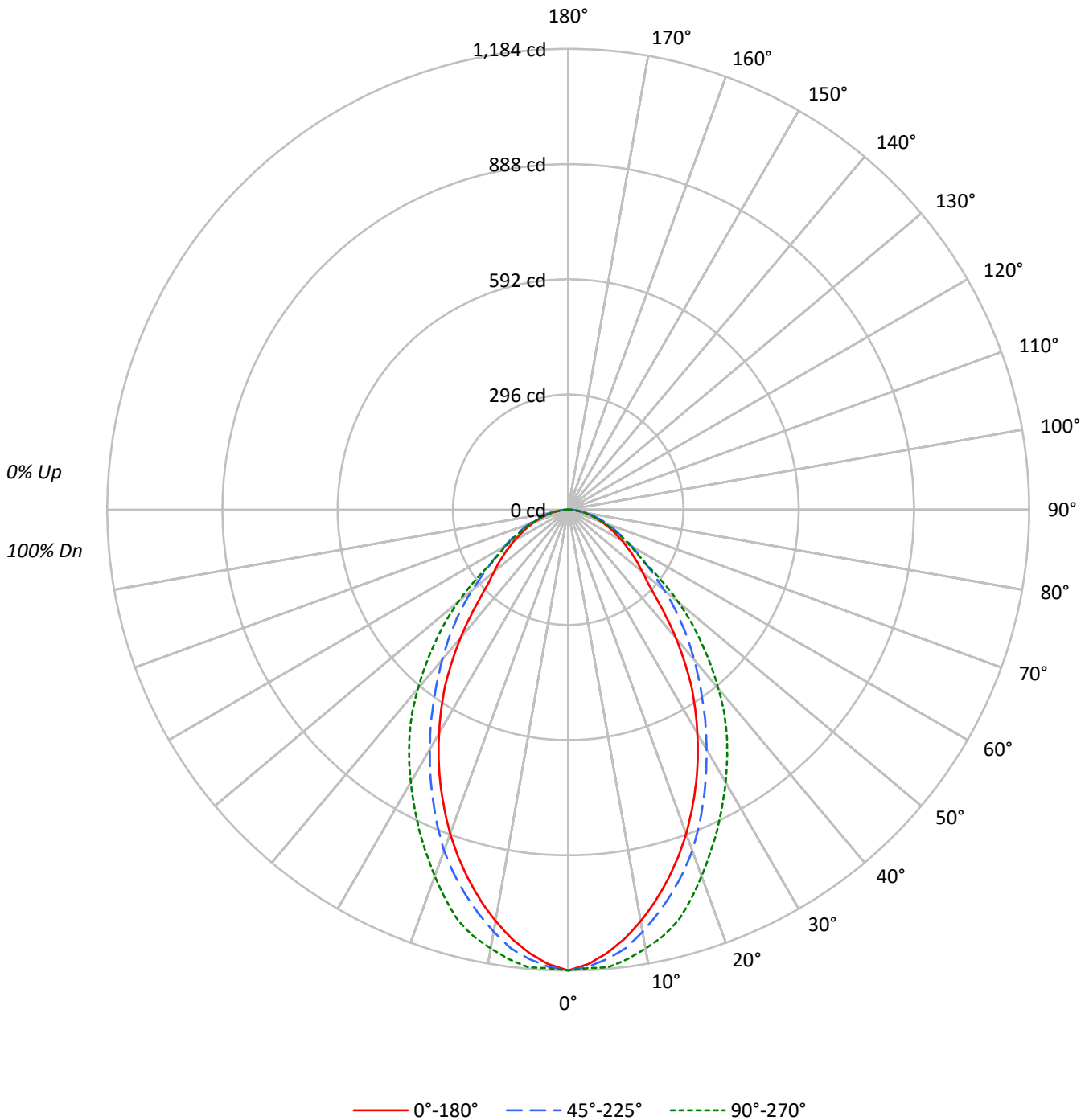
Lumens per Lamp: N/A
Luminaire Lumens: 1930.1 lumens
Efficiency: N/A
Efficacy: 46.2 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 1.05 / 1.05
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.8
Input Voltage (V): 120
Input Current (Ain): 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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76
3	94	85	78	73	92	84	77	72	81	75	71	78	74	70	76	72	68	67
4	88	77	69	64	85	76	69	63	73	67	62	71	66	62	69	65	61	59
5	81	70	62	56	80	69	62	56	67	60	55	65	59	55	63	58	54	52
6	76	64	56	50	74	63	56	50	61	55	50	60	54	49	58	53	49	47
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	44	43
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41	39
9	63	50	43	38	61	50	43	38	49	42	38	48	42	37	47	41	37	36
10	59	47	40	35	58	46	40	35	46	39	35	45	39	35	44	38	34	33

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	21846	21846	21846
5°	21175	21459	21859
10°	20109	20633	21445
15°	18823	19529	20867
20°	17398	18299	19674
25°	15812	16744	18454
30°	14133	15137	17225
35°	12389	13563	16003
40°	10365	12114	14443
45°	8306	10731	12625
50°	7125	9247	10599
55°	6511	7863	7824
60°	5920	6953	6813
65°	5392	6226	5947
70°	4947	5703	5287
75°	4627	5262	4627
80°	4325	4867	4059
85°	4319	5124	3493

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 12625 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.3	5.7
10°-20°	289.4	15.0
20°-30°	381.6	19.8
30°-40°	384.3	19.9
40°-50°	312.8	16.2
50°-60°	213.3	11.0
60°-70°	138.4	7.2
70°-80°	76.2	3.9
80°-90°	24.9	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°	780.3	40.4
0°-40°	1164.6	60.3
0°-60°	1690.6	87.6
0°-90°	1930.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1930.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1184	1184	1184	1184	1184	
5°	1143	1165	1158	1169	1180	107
15°	985	1011	1022	1064	1092	276
25°	777	802	822	859	906	356
35°	550	578	602	654	710	342
45°	318	358	411	447	484	251
55°	202	223	244	246	243	181
65°	124	146	143	135	136	123
75°	65	80	74	66	65	69
85°	20	27	24	19	16	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1183.9	1183.9	1183.9	1183.9	1183.9
2.5°	1168.7	1187.7	1175.0	1176.3	1178.8
5°	1143.2	1164.8	1158.5	1168.7	1180.1
7.5°	1111.4	1133.0	1135.6	1150.8	1164.8
10°	1073.2	1097.4	1101.2	1124.1	1144.5
12.5°	1031.2	1057.9	1063.0	1096.1	1122.8
15°	985.3	1010.8	1022.3	1064.3	1092.3
17.5°	937.0	961.1	979.0	1017.2	1049.0
20°	886.0	909.0	931.9	966.2	1001.9
22.5°	831.3	856.8	878.4	912.8	953.5
25°	776.6	802.0	822.4	859.3	906.4
27.5°	720.5	746.0	766.4	805.8	856.8
30°	663.3	690.0	710.4	754.9	808.4
32.5°	607.2	634.0	656.9	704.0	760.0
35°	550.0	578.0	602.1	654.3	710.4
37.5°	488.8	520.7	551.2	603.4	658.2
40°	430.3	465.9	502.9	551.2	599.6
42.5°	371.7	411.2	457.0	497.8	542.3
45°	318.3	357.7	411.2	446.8	483.8
47.5°	276.2	309.3	366.6	395.9	429.0
50°	248.2	271.2	322.1	345.0	369.2
52.5°	225.3	244.4	280.1	295.3	308.1
55°	202.4	222.8	244.4	245.7	243.2
57.5°	179.5	202.4	213.9	205.0	210.1
60°	160.4	183.3	188.4	179.5	184.6
62.5°	140.0	165.5	165.5	156.6	159.1
65°	123.5	146.4	142.6	134.9	136.2
67.5°	106.9	129.9	123.5	115.8	115.8
70°	91.7	113.3	105.7	98.0	98.0
72.5°	77.7	95.5	90.4	81.5	80.2
75°	64.9	80.2	73.8	66.2	64.9
77.5°	52.2	64.9	59.8	53.5	50.9
80°	40.7	52.2	45.8	40.7	38.2
82.5°	30.6	39.5	34.4	29.3	26.7
85°	20.4	26.7	24.2	19.1	16.5
87.5°	10.2	17.8	15.3	12.7	10.2
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	17.43	18.87	17.80	19.19	19.50	17.68	19.12	18.05	19.43	19.75
	3H	18.96	20.25	19.34	20.58	20.94	19.04	20.33	19.42	20.65	21.02
	4H	19.52	20.73	19.92	21.08	21.46	19.52	20.73	19.92	21.07	21.46
	6H	19.95	21.06	20.36	21.43	21.82	19.87	20.98	20.28	21.35	21.74
	8H	20.10	21.16	20.53	21.55	21.95	19.98	21.03	20.40	21.42	21.83
	12H	20.21	21.23	20.65	21.61	22.04	20.04	21.06	20.48	21.44	21.87
4H	2H	18.01	19.21	18.41	19.56	19.94	18.21	19.41	18.61	19.76	20.14
	3H	19.81	20.81	20.22	21.21	21.61	19.78	20.78	20.19	21.18	21.58
	4H	20.55	21.45	20.99	21.87	22.31	20.37	21.27	20.81	21.69	22.13
	6H	21.14	21.92	21.60	22.36	22.82	20.84	21.62	21.30	22.07	22.53
	8H	21.35	22.08	21.81	22.52	22.99	20.99	21.72	21.46	22.17	22.63
	12H	21.51	22.16	22.00	22.64	23.12	21.10	21.75	21.58	22.23	22.70
8H	4H	20.82	21.55	21.28	21.99	22.46	20.66	21.39	21.13	21.84	22.31
	6H	21.57	22.17	22.07	22.67	23.15	21.25	21.86	21.75	22.35	22.83
	8H	21.90	22.44	22.41	22.95	23.44	21.48	22.02	21.99	22.53	23.02
	12H	22.18	22.66	22.69	23.15	23.72	21.66	22.14	22.17	22.63	23.20
12H	4H	20.83	21.48	21.31	21.96	22.43	20.70	21.35	21.18	21.83	22.30
	6H	21.62	22.16	22.13	22.67	23.16	21.32	21.86	21.84	22.37	22.86
	8H	22.01	22.49	22.53	22.99	23.55	21.61	22.08	22.12	22.58	23.14