

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: P1057842

Luminaire Tested: S122RDRP-S1005D930-X4F0-XX-UDD-WVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1057842
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-S1005D930-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: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

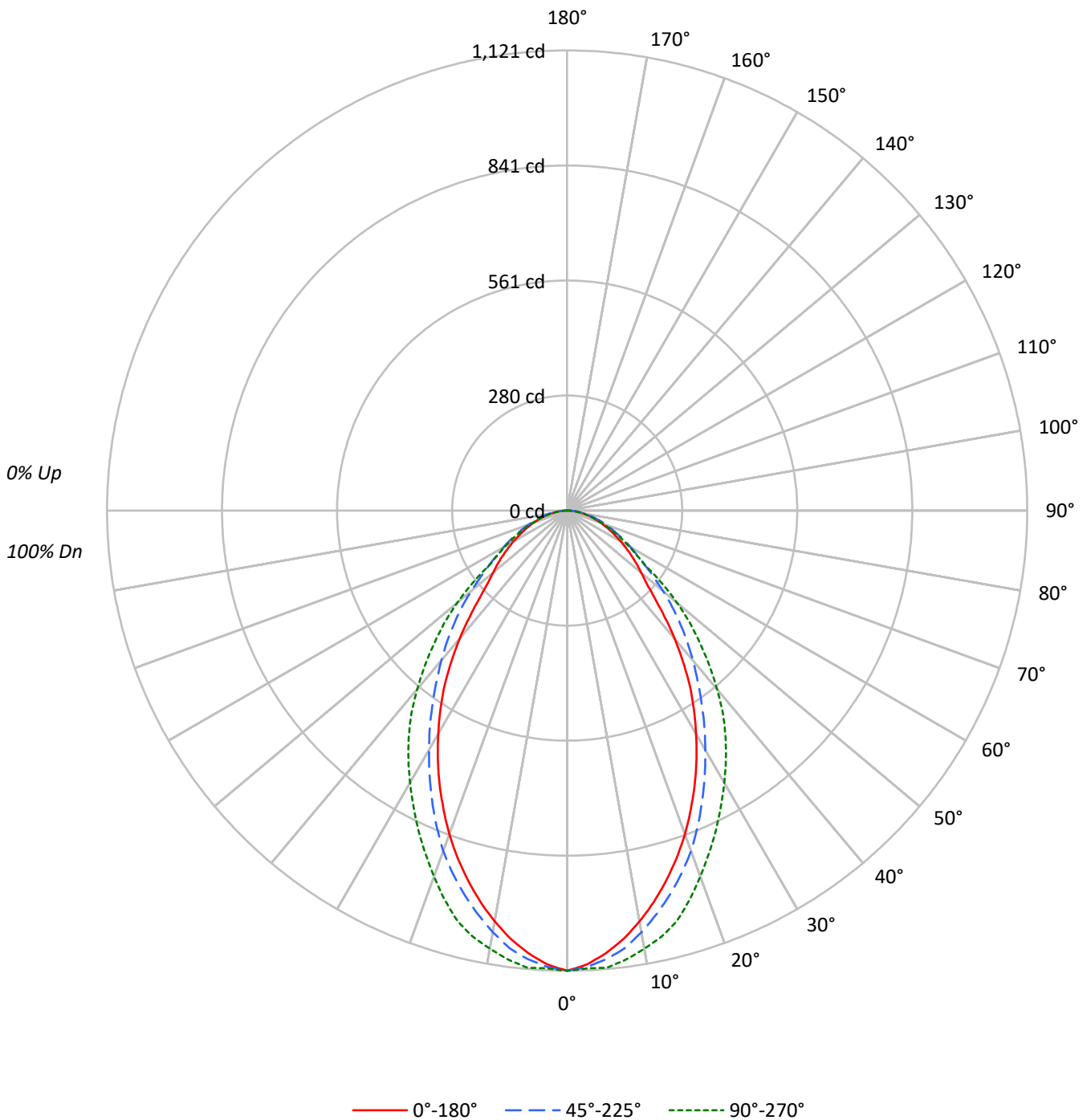
Lumens per Lamp: N/A
Luminaire Lumens: 1827.7 lumens
Efficiency: N/A
Efficacy: 43.7 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 1.05 / 1.05
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

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	99	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	39	35	46	39	35	45	39	35	44	38	34	33

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20687	20687	20687
5°	20051	20320	20699
10°	19041	19537	20305
15°	17823	18492	19759
20°	16475	17327	18629
25°	14971	15854	17475
30°	13383	14333	16311
35°	11732	12844	15153
40°	9813	11471	13677
45°	7865	10162	11954
50°	6749	8756	10036
55°	6167	7448	7406
60°	5606	6584	6451
65°	5104	5894	5632
70°	4683	5401	5007
75°	4385	4984	4385
80°	4102	4612	3847
85°	4086	4848	3324

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 11954 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.5	5.7
10°-20°	274.0	15.0
20°-30°	361.4	19.8
30°-40°	363.9	19.9
40°-50°	296.2	16.2
50°-60°	202.0	11.0
60°-70°	131.1	7.2
70°-80°	72.2	3.9
80°-90°	23.5	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°	738.9	40.4
0°-40°	1102.8	60.3
0°-60°	1600.9	87.6
0°-90°	1827.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1827.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1121	1121	1121	1121	1121	
5°	1082	1103	1097	1107	1118	101
15°	933	957	968	1008	1034	261
25°	735	759	779	814	858	337
35°	521	547	570	620	673	323
45°	301	339	389	423	458	237
55°	192	211	232	233	230	172
65°	117	139	135	128	129	116
75°	62	76	70	63	62	65
85°	19	25	23	18	16	21
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1121.1	<i>1121.1</i>	1121.1	1121.1	1121.1
2.5°	<i>1106.6</i>	<i>1124.7</i>	<i>1112.7</i>	<i>1113.9</i>	<i>1116.3</i>
5°	1082.5	<i>1103.0</i>	1097.0	1106.6	1117.5
7.5°	1052.4	<i>1072.9</i>	1075.3	1089.7	1103.0
10°	1016.2	<i>1039.1</i>	1042.7	1064.4	1083.7
12.5°	976.4	<i>1001.7</i>	1006.6	1037.9	1063.2
15°	933.0	<i>957.1</i>	968.0	1007.8	1034.3
17.5°	887.2	<i>910.1</i>	927.0	963.2	993.3
20°	839.0	<i>860.7</i>	882.4	915.0	948.7
22.5°	787.2	<i>811.3</i>	831.8	864.3	902.9
25°	735.3	<i>759.4</i>	778.7	813.7	858.3
27.5°	682.3	<i>706.4</i>	725.7	763.1	811.3
30°	628.1	<i>653.4</i>	672.7	714.8	765.5
32.5°	575.0	<i>600.3</i>	622.0	666.6	719.7
35°	520.8	<i>547.3</i>	570.2	619.6	672.7
37.5°	462.9	<i>493.0</i>	522.0	571.4	623.2
40°	407.4	<i>441.2</i>	476.2	522.0	567.8
42.5°	352.0	<i>389.4</i>	432.8	471.3	513.5
45°	301.4	<i>338.7</i>	389.4	423.1	458.1
47.5°	261.6	<i>292.9</i>	347.2	374.9	406.2
50°	235.1	<i>256.8</i>	305.0	326.7	349.6
52.5°	213.4	<i>231.5</i>	265.2	279.7	291.7
55°	191.7	<i>211.0</i>	231.5	232.7	230.2
57.5°	170.0	<i>191.7</i>	202.5	194.1	198.9
60°	151.9	<i>173.6</i>	178.4	170.0	174.8
62.5°	132.6	<i>156.7</i>	156.7	148.3	150.7
65°	116.9	<i>138.6</i>	135.0	127.8	129.0
67.5°	101.3	<i>123.0</i>	116.9	109.7	109.7
70°	86.8	<i>107.3</i>	100.1	92.8	92.8
72.5°	73.5	<i>90.4</i>	85.6	77.2	75.9
75°	61.5	<i>75.9</i>	69.9	62.7	61.5
77.5°	49.4	<i>61.5</i>	56.7	50.6	48.2
80°	38.6	<i>49.4</i>	43.4	38.6	36.2
82.5°	28.9	<i>37.4</i>	32.5	27.7	25.3
85°	19.3	<i>25.3</i>	22.9	18.1	15.7
87.5°	9.6	<i>16.9</i>	14.5	12.1	9.6
90°	0.0	<i>0.0</i>	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	17.25	18.68	17.61	19.00	19.31	17.49	18.93	17.86	19.24	19.56
	3H	18.77	20.06	19.15	20.39	20.75	18.85	20.14	19.23	20.47	20.83
	4H	19.34	20.54	19.74	20.89	21.27	19.33	20.54	19.73	20.89	21.27
	6H	19.76	20.87	20.17	21.24	21.63	19.68	20.79	20.09	21.16	21.55
	8H	19.91	20.97	20.34	21.36	21.76	19.79	20.84	20.22	21.23	21.64
	12H	20.02	21.04	20.46	21.42	21.85	19.86	20.87	20.29	21.25	21.68
4H	2H	17.82	19.02	18.22	19.37	19.75	18.01	19.22	18.42	19.57	19.95
	3H	19.62	20.62	20.03	21.02	21.42	19.59	20.59	20.00	20.99	21.39
	4H	20.36	21.26	20.80	21.68	22.12	20.18	21.08	20.62	21.50	21.94
	6H	20.95	21.73	21.41	22.17	22.63	20.65	21.43	21.11	21.88	22.34
	8H	21.16	21.89	21.62	22.33	22.80	20.80	21.53	21.27	21.98	22.45
	12H	21.32	21.97	21.81	22.45	22.93	20.91	21.56	21.40	22.04	22.51
8H	4H	20.63	21.36	21.09	21.80	22.27	20.47	21.20	20.94	21.65	22.12
	6H	21.38	21.98	21.88	22.48	22.96	21.07	21.67	21.56	22.16	22.64
	8H	21.71	22.25	22.23	22.76	23.25	21.29	21.83	21.80	22.34	22.83
	12H	21.99	22.47	22.50	22.96	23.53	21.47	21.95	21.98	22.44	23.01
12H	4H	20.64	21.29	21.13	21.77	22.24	20.51	21.16	20.99	21.64	22.11
	6H	21.43	21.97	21.95	22.48	22.97	21.13	21.67	21.65	22.19	22.67
	8H	21.83	22.30	22.34	22.80	23.36	21.42	21.90	21.93	22.39	22.96