

Scaled data based on original data using
LM-79-2019 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: S122RDR-S1005D930-X4F0-XX-UDD-WVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
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: S122RDR-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

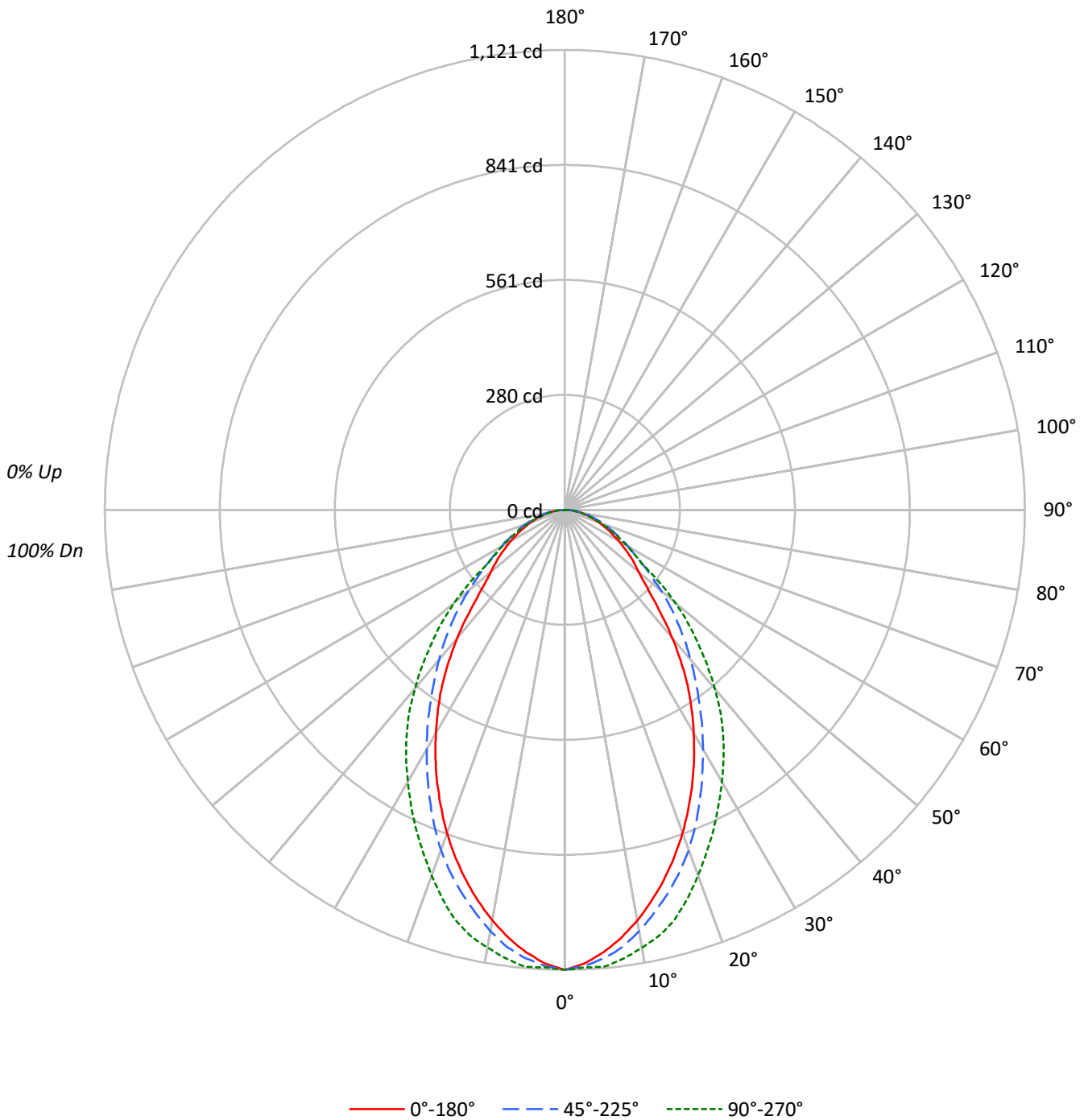
Lumens per Lamp: N/A
Luminaire Lumens: 1827.7 lumens
Efficiency: N/A
Efficacy: 43.7 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 1.05 / 1.05
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

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	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	1121.1	1121.1	1121.1	1121.1
2.5°	1106.6	1124.7	1112.7	1113.9	1116.3
5°	1082.5	1103.0	1097.0	1106.6	1117.5
7.5°	1052.4	1072.9	1075.3	1089.7	1103.0
10°	1016.2	1039.1	1042.7	1064.4	1083.7
12.5°	976.4	1001.7	1006.6	1037.9	1063.2
15°	933.0	957.1	968.0	1007.8	1034.3
17.5°	887.2	910.1	927.0	963.2	993.3
20°	839.0	860.7	882.4	915.0	948.7
22.5°	787.2	811.3	831.8	864.3	902.9
25°	735.3	759.4	778.7	813.7	858.3
27.5°	682.3	706.4	725.7	763.1	811.3
30°	628.1	653.4	672.7	714.8	765.5
32.5°	575.0	600.3	622.0	666.6	719.7
35°	520.8	547.3	570.2	619.6	672.7
37.5°	462.9	493.0	522.0	571.4	623.2
40°	407.4	441.2	476.2	522.0	567.8
42.5°	352.0	389.4	432.8	471.3	513.5
45°	301.4	338.7	389.4	423.1	458.1
47.5°	261.6	292.9	347.2	374.9	406.2
50°	235.1	256.8	305.0	326.7	349.6
52.5°	213.4	231.5	265.2	279.7	291.7
55°	191.7	211.0	231.5	232.7	230.2
57.5°	170.0	191.7	202.5	194.1	198.9
60°	151.9	173.6	178.4	170.0	174.8
62.5°	132.6	156.7	156.7	148.3	150.7
65°	116.9	138.6	135.0	127.8	129.0
67.5°	101.3	123.0	116.9	109.7	109.7
70°	86.8	107.3	100.1	92.8	92.8
72.5°	73.5	90.4	85.6	77.2	75.9
75°	61.5	75.9	69.9	62.7	61.5
77.5°	49.4	61.5	56.7	50.6	48.2
80°	38.6	49.4	43.4	38.6	36.2
82.5°	28.9	37.4	32.5	27.7	25.3
85°	19.3	25.3	22.9	18.1	15.7
87.5°	9.6	16.9	14.5	12.1	9.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)