

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: P1057833

Luminaire Tested: S122RDR-S1005D927-X4F0-XX-UDD-WVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1057833
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-S1005D927-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: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

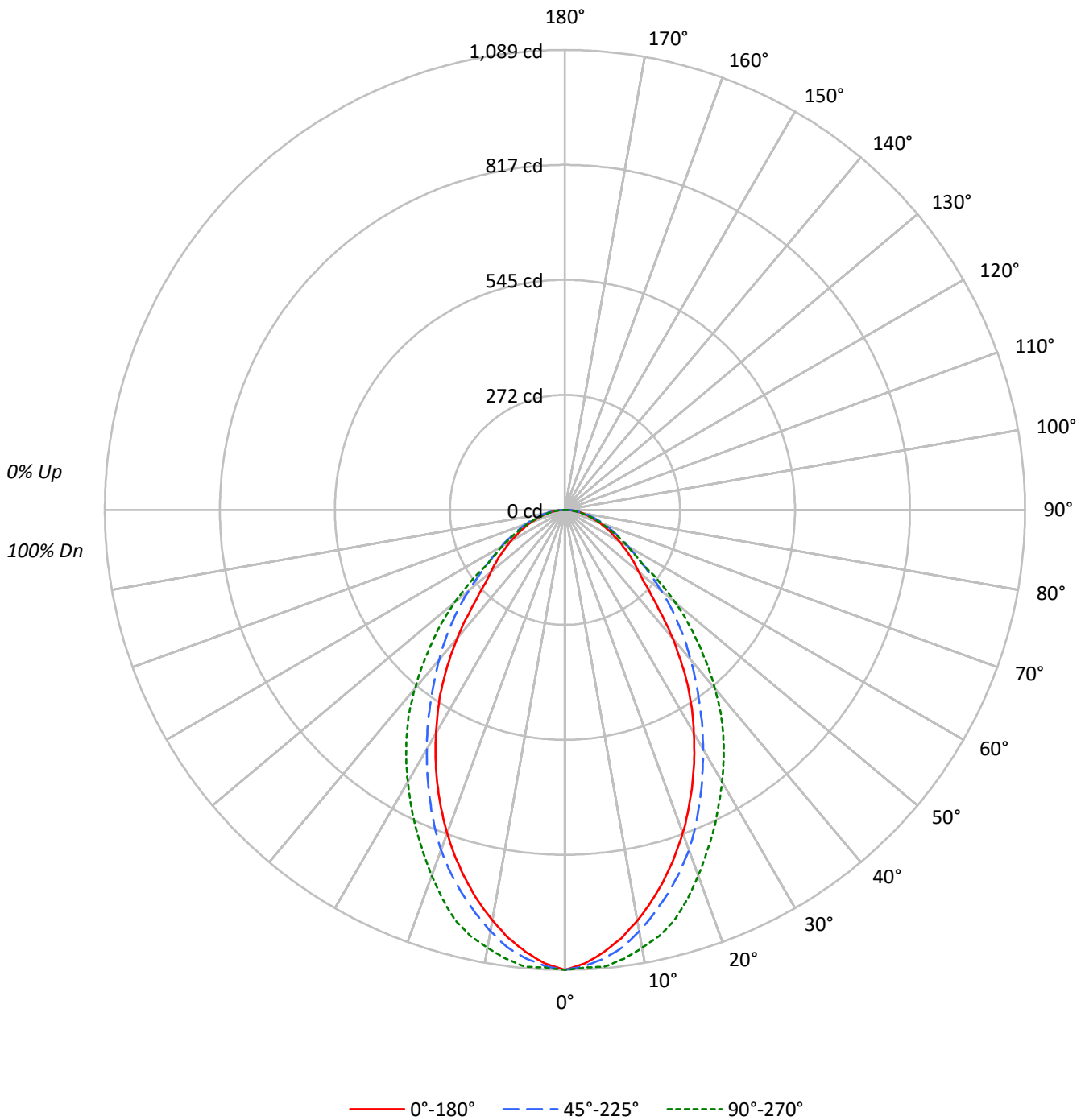
Lumens per Lamp: N/A
Luminaire Lumens: 1775.9 lumens
Efficiency: N/A
Efficacy: 42.5 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 1.05 / 1.05
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

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°	20100	20100	20100
5°	19482	19744	20112
10°	18501	18984	19730
15°	17319	17967	19199
20°	16008	16837	18101
25°	14547	15406	16980
30°	13002	13926	15848
35°	11398	12480	14723
40°	9536	11146	13289
45°	7641	9872	11615
50°	6557	8506	9752
55°	5990	7235	7197
60°	5447	6399	6266
65°	4960	5728	5471
70°	4548	5244	4866
75°	4256	4841	4256
80°	3985	4484	3730
85°	3959	4721	3218

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 11615 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.5	5.7
10°-20°	266.2	15.0
20°-30°	351.1	19.8
30°-40°	353.6	19.9
40°-50°	287.8	16.2
50°-60°	196.2	11.0
60°-70°	127.4	7.2
70°-80°	70.1	3.9
80°-90°	22.9	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°	717.9	40.4
0°-40°	1071.5	60.3
0°-60°	1555.5	87.6
0°-90°	1775.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1775.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1089	1089	1089	1089	1089	
5°	1052	1072	1066	1075	1086	98
15°	907	930	940	979	1005	254
25°	714	738	757	791	834	328
35°	506	532	554	602	654	314
45°	293	329	378	411	445	231
55°	186	205	225	226	224	167
65°	114	135	131	124	125	113
75°	60	74	68	61	60	63
85°	19	25	22	18	15	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1089.3	1089.3	1089.3	1089.3	1089.3
2.5°	1075.2	1092.8	1081.1	1082.3	1084.6
5°	1051.8	1071.7	1065.9	1075.2	1085.8
7.5°	1022.5	1042.4	1044.8	1058.8	1071.7
10°	987.4	1009.7	1013.2	1034.3	1053.0
12.5°	948.7	973.3	978.0	1008.5	1033.1
15°	906.6	930.0	940.5	979.2	1005.0
17.5°	862.1	884.3	900.7	935.9	965.1
20°	815.2	836.3	857.4	889.0	921.8
22.5°	764.9	788.3	808.2	839.8	877.3
25°	714.5	737.9	756.7	790.6	834.0
27.5°	663.0	686.4	705.1	741.4	788.3
30°	610.2	634.8	653.6	694.6	743.8
32.5°	558.7	583.3	604.4	647.7	699.3
35°	506.0	531.8	554.0	602.0	653.6
37.5°	449.8	479.1	507.2	555.2	605.6
40°	395.9	428.7	462.7	507.2	551.7
42.5°	342.0	378.3	420.5	458.0	499.0
45°	292.8	329.1	378.3	411.1	445.1
47.5°	254.2	284.6	337.3	364.3	394.7
50°	228.4	249.5	296.3	317.4	339.7
52.5°	207.3	224.9	257.7	271.7	283.5
55°	186.2	205.0	224.9	226.1	223.7
57.5°	165.2	186.2	196.8	188.6	193.3
60°	147.6	168.7	173.4	165.2	169.8
62.5°	128.8	152.3	152.3	144.1	146.4
65°	113.6	134.7	131.2	124.2	125.3
67.5°	98.4	119.5	113.6	106.6	106.6
70°	84.3	104.2	97.2	90.2	90.2
72.5°	71.4	87.8	83.2	75.0	73.8
75°	59.7	73.8	67.9	60.9	59.7
77.5°	48.0	59.7	55.1	49.2	46.9
80°	37.5	48.0	42.2	37.5	35.1
82.5°	28.1	36.3	31.6	26.9	24.6
85°	18.7	24.6	22.3	17.6	15.2
87.5°	9.4	16.4	14.1	11.7	9.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)