

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: P1058085

Luminaire Tested: S122RDR-S675D930-X4F0-XX-UDD-WVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1058085
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-S675D930-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

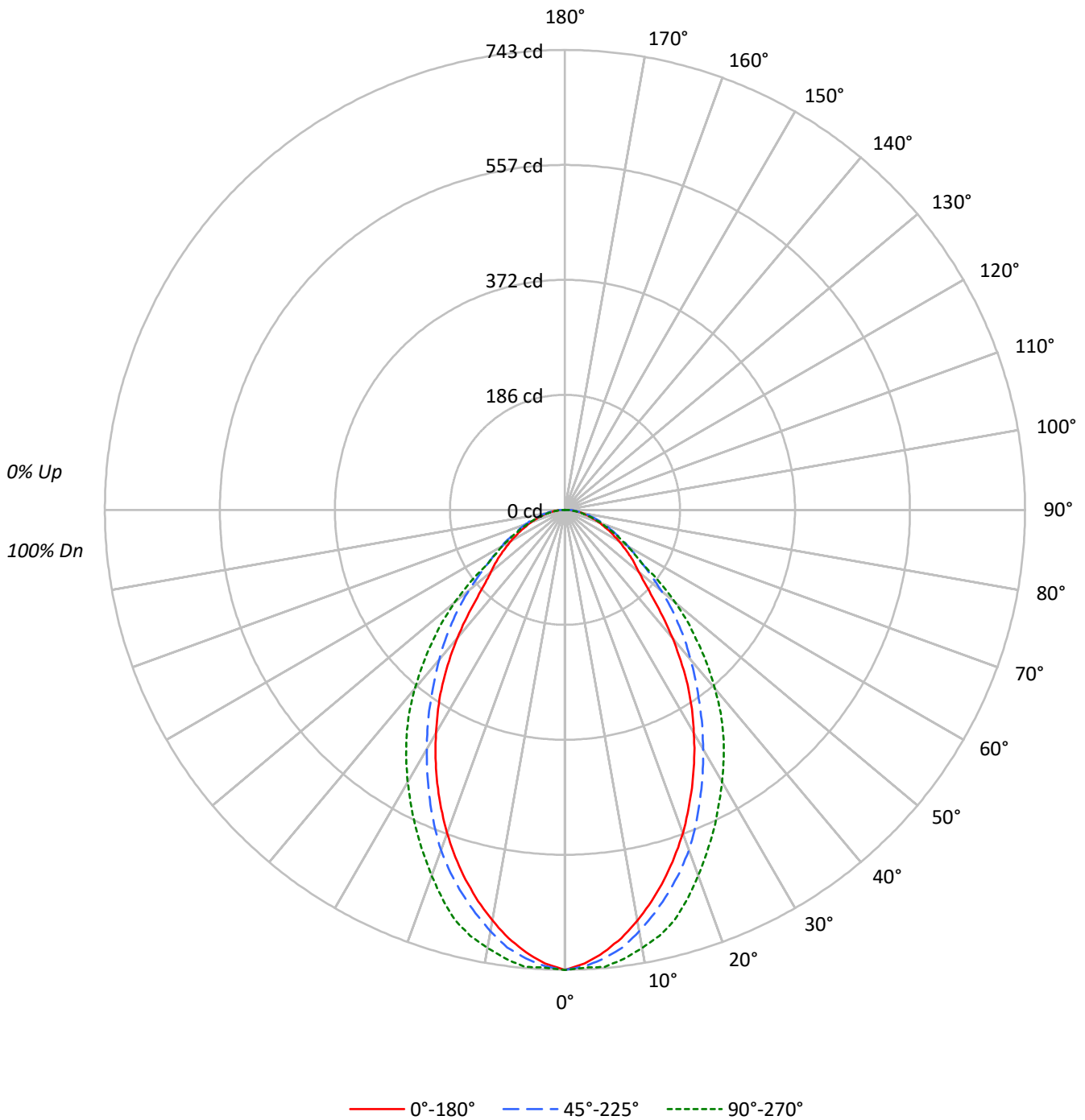
Lumens per Lamp: N/A
Luminaire Lumens: 1211.9 lumens
Efficiency: N/A
Efficacy: 47.0 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 1.05 / 1.05
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 25.8
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°	13718	13718	13718
5°	13296	13474	13726
10°	12625	12955	13464
15°	11819	12261	13101
20°	10924	11489	12353
25°	9928	10512	11587
30°	8872	9503	10815
35°	7778	8517	10047
40°	6509	7605	9069
45°	5214	6738	7925
50°	4475	5805	6654
55°	4089	4938	4912
60°	3716	4366	4277
65°	3384	3908	3733
70°	3102	3577	3318
75°	2909	3308	2909
80°	2720	3060	2550
85°	2710	3218	2202

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 7925 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.6	5.7
10°-20°	181.7	15.0
20°-30°	239.6	19.8
30°-40°	241.3	19.9
40°-50°	196.4	16.2
50°-60°	133.9	11.0
60°-70°	86.9	7.2
70°-80°	47.9	4.0
80°-90°	15.6	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°	489.9	40.4
0°-40°	731.2	60.3
0°-60°	1061.5	87.6
0°-90°	1211.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1211.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	743	743	743	743	743	
5°	718	731	727	734	741	67
15°	619	635	642	668	686	173
25°	488	504	516	540	569	224
35°	345	363	378	411	446	214
45°	200	225	258	281	304	157
55°	127	140	154	154	153	114
65°	78	92	90	85	86	77
75°	41	50	46	42	41	43
85°	13	17	15	12	10	14
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	743.4	743.4	743.4	743.4	743.4
2.5°	733.8	745.7	737.8	738.6	740.2
5°	717.8	731.4	727.4	733.8	741.0
7.5°	697.8	711.4	713.0	722.6	731.4
10°	673.8	689.0	691.4	705.8	718.6
12.5°	647.4	664.2	667.4	688.2	705.0
15°	618.7	634.6	641.8	668.2	685.8
17.5°	588.3	603.5	614.7	638.6	658.6
20°	556.3	570.7	585.1	606.7	629.1
22.5°	521.9	537.9	551.5	573.1	598.7
25°	487.6	503.6	516.3	539.5	569.1
27.5°	452.4	468.4	481.2	506.0	537.9
30°	416.4	433.2	446.0	474.0	507.6
32.5°	381.3	398.1	412.4	442.0	477.2
35°	345.3	362.9	378.1	410.8	446.0
37.5°	306.9	326.9	346.1	378.9	413.2
40°	270.2	292.5	315.7	346.1	376.5
42.5°	233.4	258.2	286.9	312.5	340.5
45°	199.8	224.6	258.2	280.6	303.7
47.5°	173.4	194.2	230.2	248.6	269.4
50°	155.9	170.3	202.2	216.6	231.8
52.5°	141.5	153.5	175.8	185.4	193.4
55°	127.1	139.9	153.5	154.3	152.7
57.5°	112.7	127.1	134.3	128.7	131.9
60°	100.7	115.1	118.3	112.7	115.9
62.5°	87.9	103.9	103.9	98.3	99.9
65°	77.5	91.9	89.5	84.7	85.5
67.5°	67.1	81.5	77.5	72.7	72.7
70°	57.5	71.1	66.3	61.5	61.5
72.5°	48.8	59.9	56.8	51.2	50.4
75°	40.8	50.4	46.4	41.6	40.8
77.5°	32.8	40.8	37.6	33.6	32.0
80°	25.6	32.8	28.8	25.6	24.0
82.5°	19.2	24.8	21.6	18.4	16.8
85°	12.8	16.8	15.2	12.0	10.4
87.5°	6.4	11.2	9.6	8.0	6.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)