

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: P1058067

Luminaire Tested: S122RDR-S675D850-X4F0-XX-UDD-WVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1058067
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-S675D850-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: 5000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

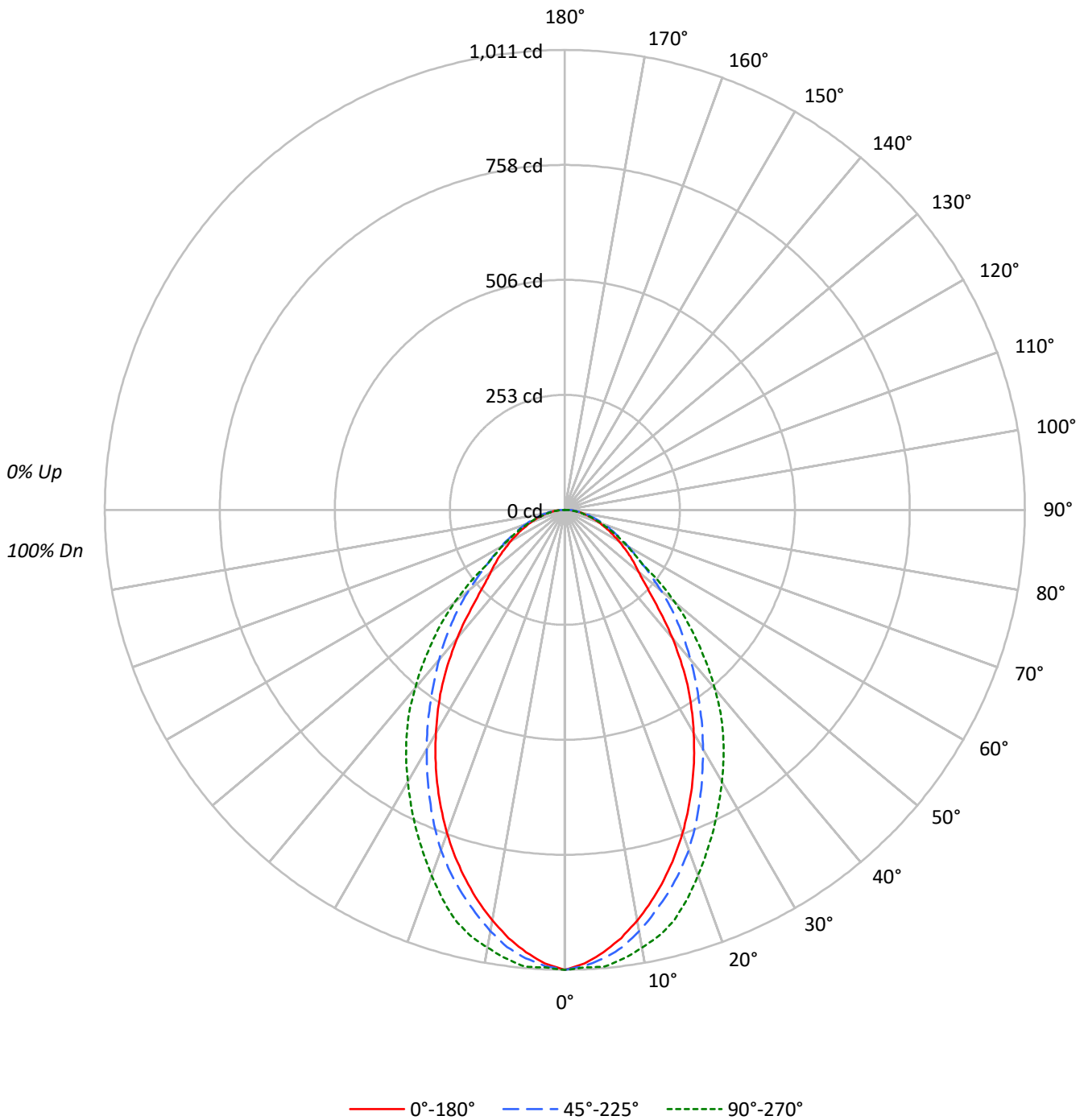
Lumens per Lamp: N/A
Luminaire Lumens: 1648.4 lumens
Efficiency: N/A
Efficacy: 63.9 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 1.05 / 1.05
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

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
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°	18657	18657	18657
5°	18084	18327	18669
10°	17173	17622	18314
15°	16076	16679	17822
20°	14859	15629	16803
25°	13503	14301	15761
30°	12070	12927	14710
35°	10581	11585	13667
40°	8852	10346	12335
45°	7093	9165	10783
50°	6086	7897	9051
55°	5562	6717	6682
60°	5056	5938	5820
65°	4606	5318	5078
70°	4224	4866	4516
75°	3950	4499	3950
80°	3698	4155	3464
85°	3684	4383	2985

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 10783 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.3	5.7
10°-20°	247.1	15.0
20°-30°	325.9	19.8
30°-40°	328.2	19.9
40°-50°	267.1	16.2
50°-60°	182.1	11.0
60°-70°	118.2	7.2
70°-80°	65.1	3.9
80°-90°	21.2	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°	666.4	40.4
0°-40°	994.6	60.3
0°-60°	1443.9	87.6
0°-90°	1648.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1648.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1011	1011	1011	1011	1011	
5°	976	995	989	998	1008	91
15°	842	863	873	909	933	236
25°	663	685	702	734	774	304
35°	470	494	514	559	607	292
45°	272	306	351	382	413	214
55°	173	190	209	210	208	155
65°	106	125	122	115	116	105
75°	55	68	63	56	55	59
85°	17	23	21	16	14	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1011.1	1011.1	1011.1	1011.1	1011.1
2.5°	998.1	1014.4	1003.5	1004.6	1006.8
5°	976.3	994.8	989.4	998.1	1007.9
7.5°	949.2	967.6	969.8	982.9	994.8
10°	916.5	937.2	940.5	960.0	977.4
12.5°	880.7	903.5	907.8	936.1	958.9
15°	841.5	863.3	873.1	908.9	932.9
17.5°	800.2	820.9	836.1	868.7	895.9
20°	756.7	776.3	795.9	825.2	855.7
22.5°	710.0	731.7	750.2	779.6	814.3
25°	663.2	685.0	702.4	733.9	774.1
27.5°	615.4	637.1	654.5	688.2	731.7
30°	566.5	589.3	606.7	644.7	690.4
32.5°	518.6	541.4	561.0	601.2	649.1
35°	469.7	493.6	514.3	558.8	606.7
37.5°	417.5	444.7	470.8	515.4	562.1
40°	367.5	397.9	429.5	470.8	512.1
42.5°	317.5	351.2	390.3	425.1	463.2
45°	271.8	305.5	351.2	381.6	413.2
47.5°	235.9	264.2	313.1	338.1	366.4
50°	212.0	231.6	275.1	294.6	315.3
52.5°	192.4	208.8	239.2	252.2	263.1
55°	172.9	190.3	208.8	209.8	207.7
57.5°	153.3	172.9	182.7	175.0	179.4
60°	137.0	156.6	160.9	153.3	157.7
62.5°	119.6	141.3	141.3	133.7	135.9
65°	105.5	125.0	121.8	115.2	116.3
67.5°	91.3	110.9	105.5	98.9	98.9
70°	78.3	96.8	90.2	83.7	83.7
72.5°	66.3	81.5	77.2	69.6	68.5
75°	55.4	68.5	63.1	56.5	55.4
77.5°	44.6	55.4	51.1	45.7	43.5
80°	34.8	44.6	39.1	34.8	32.6
82.5°	26.1	33.7	29.4	25.0	22.8
85°	17.4	22.8	20.7	16.3	14.1
87.5°	8.7	15.2	13.0	10.9	8.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)