

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: P1057803

Luminaire Tested: S122RDR-S1005D835-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1057803
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-56)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDR-S1005D835-X4F0-XX-UDD-SVL-W
Description: DEFINE 2 WHITE REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

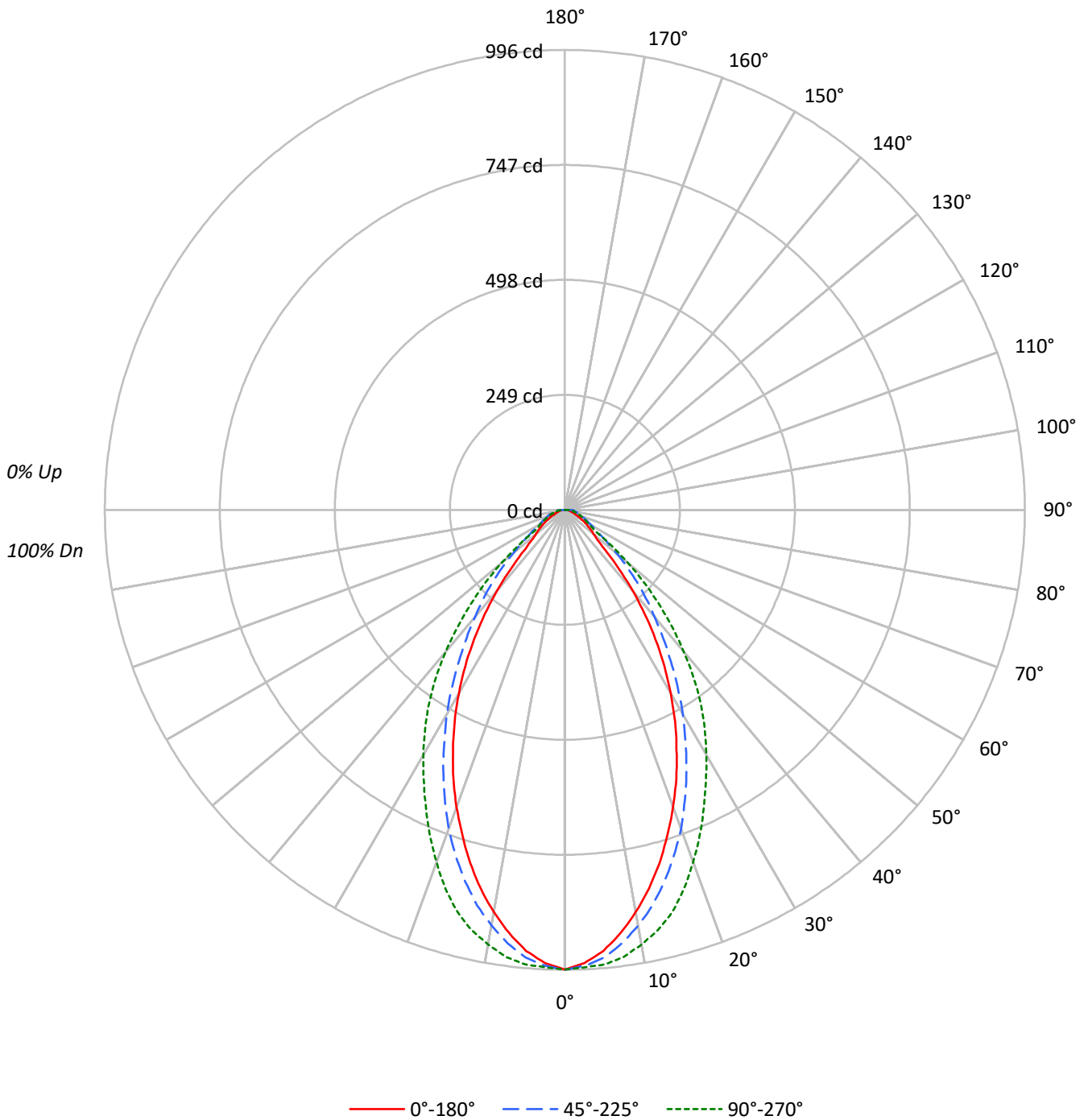
Lumens per Lamp: N/A
Luminaire Lumens: 1207.7 lumens
Efficiency: N/A
Efficacy: 28.9 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 0.98 / 0.95
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

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	111	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89
2	104	98	93	88	102	96	91	87	93	89	85	90	86	84	87	84	82	80
3	97	89	83	78	95	88	82	77	85	80	76	83	78	75	80	77	74	72
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54
7	76	65	57	52	74	64	57	52	62	56	52	61	56	52	60	55	51	50
8	71	60	53	48	70	59	53	48	58	52	48	57	52	48	56	51	47	46
9	67	56	49	45	66	56	49	45	55	49	44	54	48	44	53	48	44	42
10	64	53	46	41	63	52	46	41	51	45	41	50	45	41	50	45	41	39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18373	18373	18373
5°	17758	18032	18306
10°	16577	17131	17909
15°	15120	15913	17212
20°	13451	14439	15949
25°	11658	12682	14488
30°	9771	10875	13051
35°	7699	8999	11565
40°	5487	7270	9657
45°	3244	5751	7489
50°	2337	4163	5095
55°	1953	2998	2570
60°	1583	2403	2185
65°	1292	2131	2004
70°	1117	2077	1915
75°	1055	2110	1896
80°	1105	2518	2040
85°	1567	4065	2498

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 7489 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.3	7.6
10°-20°	234.6	19.4
20°-30°	289.4	24.0
30°-40°	257.4	21.3
40°-50°	164.3	13.6
50°-60°	78.9	6.5
60°-70°	46.3	3.8
70°-80°	29.6	2.4
80°-90°	15.8	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°	615.4	51.0
0°-40°	872.8	72.3
0°-60°	1116.1	92.4
0°-90°	1207.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1207.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	996	996	996	996	996	
5°	959	976	974	979	988	89
15°	792	811	833	871	901	221
25°	573	595	623	667	712	262
35°	342	368	400	460	513	212
45°	124	161	220	256	287	104
55°	61	78	93	90	80	55
65°	30	53	49	44	46	30
75°	15	32	30	28	27	16
85°	7	18	19	16	12	7
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	995.7	995.7	995.7	995.7	995.7
2.5°	982.4	998.7	988.3	988.3	991.3
5°	958.7	976.5	973.5	979.4	988.3
7.5°	924.7	943.9	946.9	963.1	976.5
10°	884.7	905.4	914.3	938.0	955.8
12.5°	840.4	861.1	877.3	906.9	932.1
15°	791.5	810.8	833.0	871.4	901.0
17.5°	738.3	763.4	785.6	825.6	859.6
20°	685.0	708.7	735.3	773.8	812.2
22.5°	630.3	652.5	679.1	719.0	763.4
25°	572.6	594.8	622.9	667.2	711.6
27.5°	516.3	538.5	565.2	614.0	661.3
30°	458.6	480.8	510.4	560.7	612.5
32.5°	400.9	424.6	454.2	508.9	563.7
35°	341.8	368.4	399.5	460.1	513.4
37.5°	284.1	310.7	349.2	408.3	458.6
40°	227.8	258.9	301.8	355.1	400.9
42.5°	173.1	207.1	260.4	303.3	343.2
45°	124.3	161.3	220.4	256.0	287.0
47.5°	94.7	121.3	182.0	210.1	232.3
50°	81.4	97.6	145.0	165.7	177.5
52.5°	71.0	85.8	115.4	125.8	125.8
55°	60.7	78.4	93.2	90.2	79.9
57.5°	51.8	71.0	76.9	65.1	68.1
60°	42.9	65.1	65.1	57.7	59.2
62.5°	35.5	60.7	56.2	50.3	51.8
65°	29.6	53.3	48.8	44.4	45.9
67.5°	23.7	47.3	42.9	39.9	39.9
70°	20.7	42.9	38.5	35.5	35.5
72.5°	17.8	37.0	34.0	31.1	31.1
75°	14.8	32.5	29.6	28.1	26.6
77.5°	13.3	28.1	26.6	23.7	22.2
80°	10.4	23.7	23.7	22.2	19.2
82.5°	8.9	20.7	20.7	19.2	16.3
85°	7.4	17.8	19.2	16.3	11.8
87.5°	5.9	16.3	16.3	13.3	8.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)