

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: P1058049

Luminaire Tested: S122RDR-S675D835-X4F0-XX-UDD-WVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1058049
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-S675D835-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: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

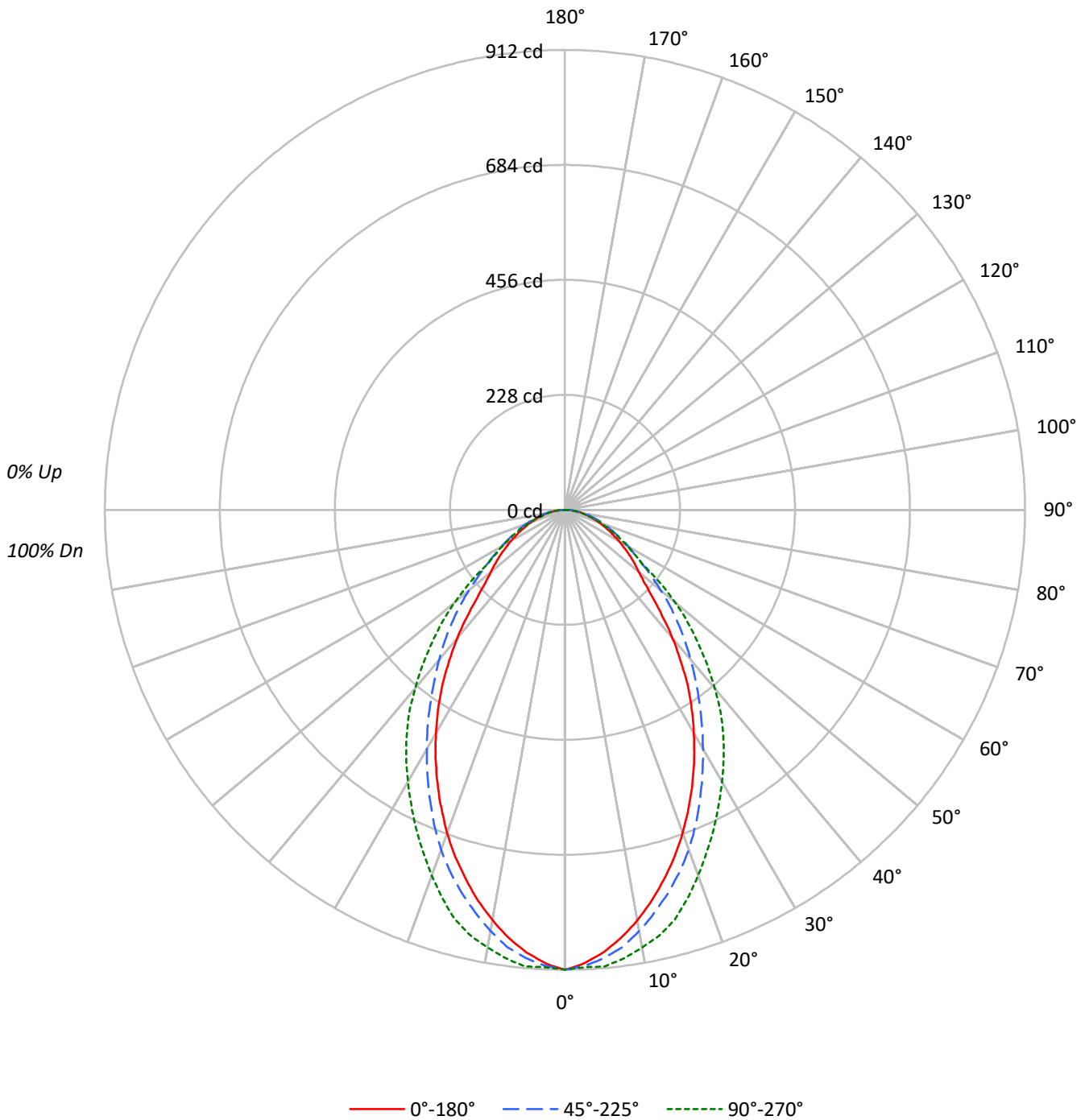
Lumens per Lamp: N/A
Luminaire Lumens: 1486.4 lumens
Efficiency: N/A
Efficacy: 57.6 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 1.05 / 1.05
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

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	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	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°	16825	16825	16825
5°	16308	16524	16834
10°	15486	15889	16515
15°	14496	15038	16070
20°	13398	14091	15152
25°	12175	12894	14211
30°	10884	11657	13264
35°	9540	10445	12324
40°	7983	9329	11124
45°	6396	8265	9721
50°	5489	7119	8161
55°	5015	6055	6026
60°	4558	5355	5248
65°	4152	4794	4580
70°	3809	4392	4073
75°	3565	4057	3565
80°	3337	3751	3124
85°	3324	3938	2689

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 9721 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.2	5.7
10°-20°	222.8	15.0
20°-30°	293.9	19.8
30°-40°	296.0	19.9
40°-50°	240.9	16.2
50°-60°	164.2	11.0
60°-70°	106.6	7.2
70°-80°	58.7	3.9
80°-90°	19.1	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°	600.9	40.4
0°-40°	896.9	60.3
0°-60°	1302.0	87.6
0°-90°	1486.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1486.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	912	912	912	912	912	
5°	880	897	892	900	909	82
15°	759	778	787	820	841	213
25°	598	618	633	662	698	274
35°	424	445	464	504	547	263
45°	245	276	317	344	372	193
55°	156	172	188	189	187	140
65°	95	113	110	104	105	95
75°	50	62	57	51	50	53
85°	16	21	19	15	13	17
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	911.8	911.8	911.8	911.8	911.8
2.5°	900.0	914.7	904.9	905.9	907.8
5°	880.4	897.0	892.1	900.0	908.8
7.5°	855.9	872.5	874.5	886.3	897.0
10°	826.5	845.1	848.0	865.7	881.4
12.5°	794.1	814.7	818.6	844.1	864.7
15°	758.8	778.4	787.2	819.6	841.2
17.5°	721.6	740.2	753.9	783.3	807.8
20°	682.3	700.0	717.6	744.1	771.6
22.5°	640.2	659.8	676.5	702.9	734.3
25°	598.0	617.6	633.3	661.8	698.0
27.5°	554.9	574.5	590.2	620.6	659.8
30°	510.8	531.4	547.1	581.4	622.5
32.5°	467.6	488.2	505.9	542.2	585.3
35°	423.5	445.1	463.7	503.9	547.1
37.5°	376.5	401.0	424.5	464.7	506.9
40°	331.4	358.8	387.3	424.5	461.8
42.5°	286.3	316.7	352.0	383.3	417.6
45°	245.1	275.5	316.7	344.1	372.5
47.5°	212.7	238.2	282.3	304.9	330.4
50°	191.2	208.8	248.0	265.7	284.3
52.5°	173.5	188.2	215.7	227.4	237.3
55°	155.9	171.6	188.2	189.2	187.3
57.5°	138.2	155.9	164.7	157.8	161.8
60°	123.5	141.2	145.1	138.2	142.2
62.5°	107.8	127.4	127.4	120.6	122.5
65°	95.1	112.7	109.8	103.9	104.9
67.5°	82.4	100.0	95.1	89.2	89.2
70°	70.6	87.3	81.4	75.5	75.5
72.5°	59.8	73.5	69.6	62.7	61.8
75°	50.0	61.8	56.9	51.0	50.0
77.5°	40.2	50.0	46.1	41.2	39.2
80°	31.4	40.2	35.3	31.4	29.4
82.5°	23.5	30.4	26.5	22.5	20.6
85°	15.7	20.6	18.6	14.7	12.7
87.5°	7.8	13.7	11.8	9.8	7.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)