

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: P1058047

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1058047
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-19)
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-B
Description: DEFINE 2 BLACK REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

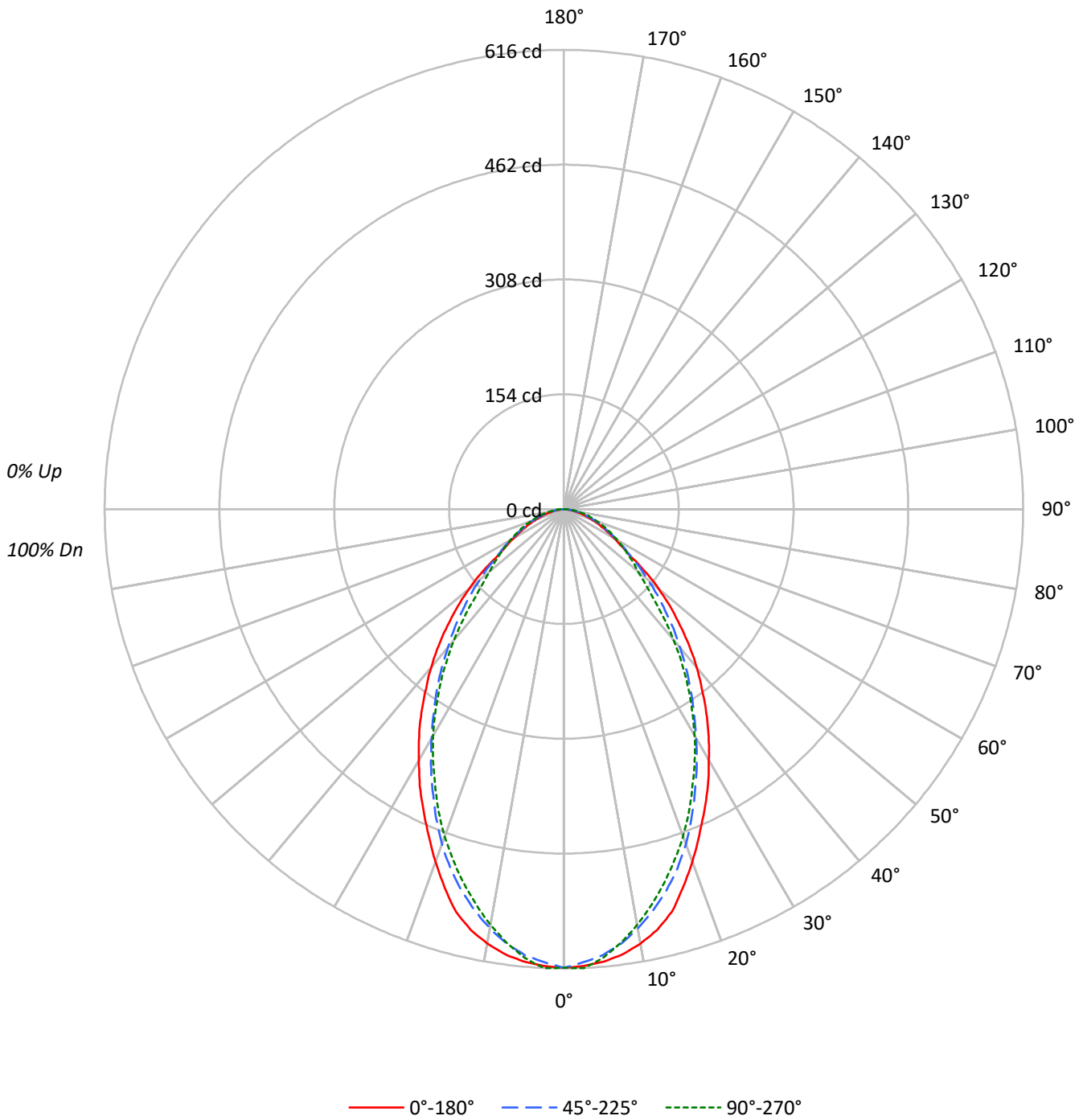
Lumens per Lamp: N/A
Luminaire Lumens: 934.3 lumens
Efficiency: N/A
Efficacy: 36.2 lumens/watt
Spacing Criteria (0/90/45): 1 / 0.92 / 1.02
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

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				100
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88				88
2	103	96	91	86	100	94	89	85	91	87	83	88	84	81	85	82	79	77				77
3	95	87	80	74	93	85	79	74	82	77	73	80	75	71	77	73	70	68				68
4	89	79	71	65	87	77	70	65	75	69	64	73	68	63	71	66	63	61				61
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54				54
6	77	66	58	52	75	65	57	52	63	56	52	61	56	51	60	55	51	49				49
7	72	60	53	47	71	60	52	47	58	52	47	57	51	47	56	50	46	44				44
8	68	56	48	43	66	55	48	43	54	47	43	53	47	43	52	46	42	41				41
9	64	52	45	40	63	51	44	39	50	44	39	49	43	39	48	43	39	37				37
10	60	48	41	36	59	48	41	36	47	41	36	46	40	36	45	40	36	34				34

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11352	11352	11352
5°	11286	11123	11195
10°	11087	10701	10609
15°	10686	10125	9918
20°	9887	9388	9176
25°	9074	8476	8317
30°	8286	7555	7472
35°	7504	6686	6533
40°	6677	5829	5521
45°	5751	5010	4423
50°	4754	4217	3712
55°	3436	3497	3339
60°	2856	3000	3037
65°	2436	2611	2781
70°	2007	2325	2536
75°	1675	1953	2303
80°	1254	1562	2083
85°	423	826	1863

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5751 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.9	6.1
10°-20°	149.8	16.0
20°-30°	193.8	20.7
30°-40°	190.1	20.3
40°-50°	149.7	16.0
50°-60°	98.1	10.5
60°-70°	59.7	6.4
70°-80°	29.8	3.2
80°-90°	6.4	0.7
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°	400.4	42.9
0°-40°	590.5	63.2
0°-60°	838.3	89.7
0°-90°	934.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	934.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	615	615	615	615	615	
5°	609	609	600	604	604	58
15°	559	552	530	523	519	156
25°	446	431	416	414	408	205
35°	333	314	297	296	290	208
45°	220	207	192	178	170	170
55°	107	113	109	105	104	101
65°	56	57	60	63	64	56
75°	24	24	27	31	32	25
85°	2	3	4	7	9	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	615.2	615.2	615.2	615.2	615.2
2.5°	613.2	614.2	608.3	614.2	616.2
5°	609.3	609.3	600.5	604.4	604.4
7.5°	602.5	601.5	587.8	587.8	586.8
10°	591.7	587.8	571.1	568.2	566.2
12.5°	578.0	571.1	551.5	546.6	543.7
15°	559.4	551.5	530.0	523.1	519.2
17.5°	531.9	524.1	505.5	497.6	493.7
20°	503.5	491.8	478.1	471.2	467.3
22.5°	474.1	460.4	447.7	442.8	438.9
25°	445.7	431.0	416.3	414.4	408.5
27.5°	418.3	400.7	386.0	385.0	380.1
30°	388.9	370.3	354.6	355.6	350.7
32.5°	361.5	343.8	325.2	326.2	320.3
35°	333.1	314.5	296.8	295.8	290.0
37.5°	303.7	286.1	269.4	265.5	259.6
40°	277.2	259.6	242.0	235.1	229.2
42.5°	248.8	233.2	217.5	206.7	198.9
45°	220.4	206.7	192.0	178.3	169.5
47.5°	193.0	182.2	169.5	152.8	146.9
50°	165.6	157.7	146.9	132.2	129.3
52.5°	137.1	134.2	127.4	117.6	116.6
55°	106.8	112.7	108.7	104.8	103.8
57.5°	90.1	91.1	94.0	93.1	93.1
60°	77.4	77.4	81.3	82.3	82.3
62.5°	65.6	66.6	70.5	72.5	72.5
65°	55.8	56.8	59.8	62.7	63.7
67.5°	46.0	48.0	50.9	53.9	54.9
70°	37.2	39.2	43.1	46.0	47.0
72.5°	30.4	31.3	35.3	38.2	39.2
75°	23.5	24.5	27.4	31.3	32.3
77.5°	16.7	18.6	21.6	24.5	26.4
80°	11.8	12.7	14.7	18.6	19.6
82.5°	6.9	7.8	9.8	12.7	13.7
85°	2.0	2.9	3.9	6.9	8.8
87.5°	0.0	0.0	0.0	2.0	3.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)