

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1058039

Luminaire Tested: S122RDRP-S675D830-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1058039
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-58)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDRP-S675D830-X4F0-XX-UDD-WVL-S
Description: DEFINE 2 SILVER REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

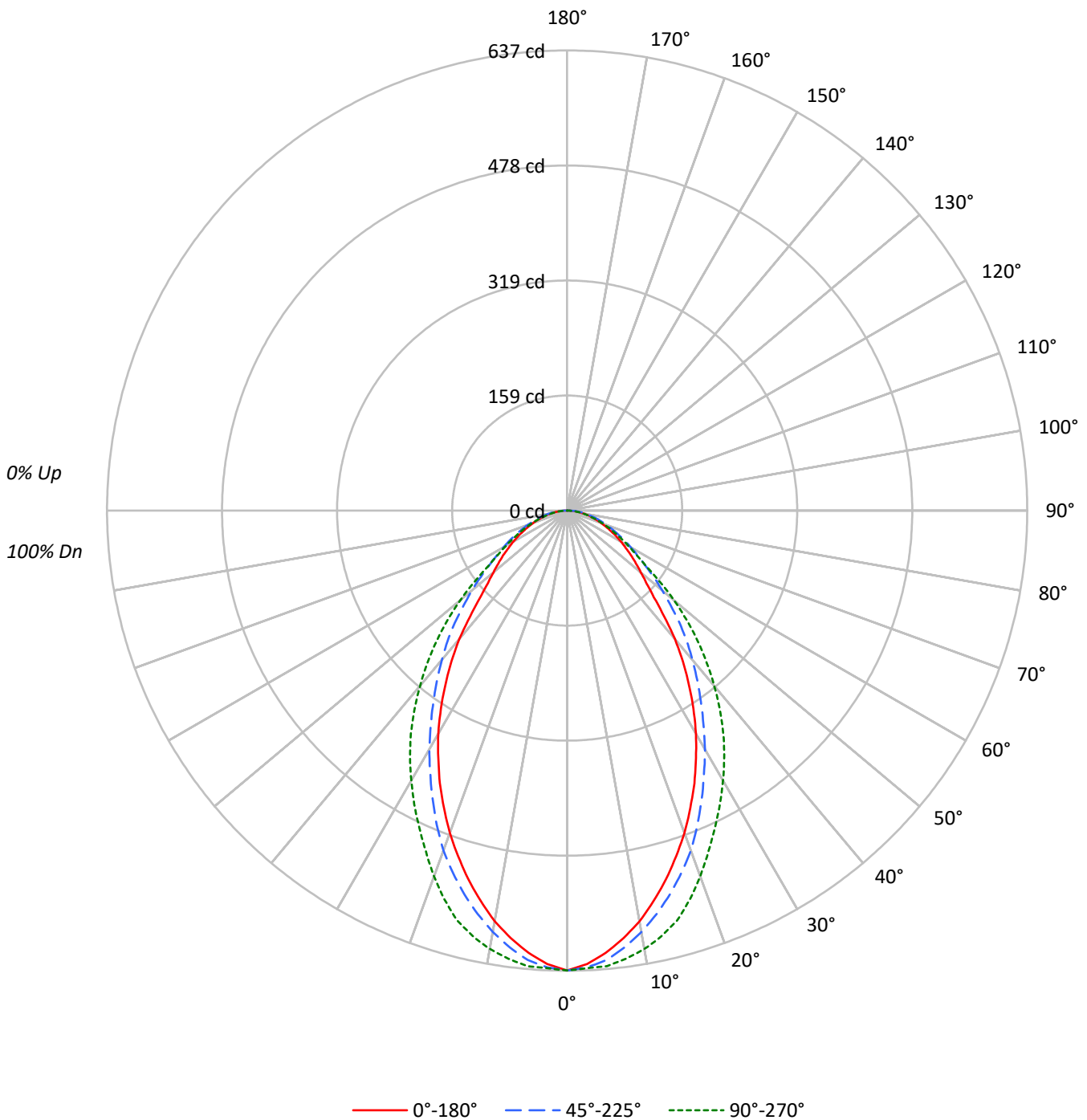
Lumens per Lamp: N/A
Luminaire Lumens: 1036.7 lumens
Efficiency: N/A
Efficacy: 40.2 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 1.05 / 1.05
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 25.8
Input Voltage (V): 120
Input Current (A_{in}): 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

TEST NUMBER: P1058039

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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	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	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	79	84	80	78					76				
3	94	85	78	73	92	84	77	72	81	75	71	78	73	69	76	72	68					66				
4	88	77	69	63	85	76	69	63	73	67	62	71	66	61	69	64	61					59				
5	81	70	62	56	79	69	61	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	45	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	45	39	35	45	39	34	44	38	34					33				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11747	11747	11747
5°	11382	11569	11723
10°	10821	11098	11548
15°	10096	10503	11227
20°	9325	9834	10578
25°	8484	8973	9858
30°	7600	8131	9194
35°	6618	7265	8492
40°	5586	6499	7633
45°	4436	5738	6678
50°	3821	4935	5543
55°	3478	4221	4250
60°	3170	3750	3613
65°	2904	3388	3187
70°	2692	3140	2843
75°	2502	2966	2502
80°	2359	2848	2263
85°	2350	2943	1948

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 6678 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.8	5.7
10°-20°	155.4	15.0
20°-30°	204.4	19.7
30°-40°	205.6	19.8
40°-50°	166.6	16.1
50°-60°	114.8	11.1
60°-70°	75.1	7.2
70°-80°	41.9	4.0
80°-90°	14.2	1.4
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°	418.6	40.4
0°-40°	624.2	60.2
0°-60°	905.5	87.4
0°-90°	1036.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1036.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	637	637	637	637	637	
5°	614	626	625	627	633	57
15°	528	542	550	570	588	148
25°	417	428	441	460	484	191
35°	294	308	322	351	377	183
45°	170	189	220	239	256	134
55°	108	120	131	134	132	97
65°	66	80	78	74	73	66
75°	35	43	42	37	35	38
85°	11	15	14	12	9	12
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	636.6	636.6	636.6	636.6	636.6
2.5°	628.3	639.4	632.9	632.9	633.9
5°	614.5	626.5	624.6	627.4	632.9
7.5°	596.9	609.8	609.8	618.2	625.5
10°	577.5	590.4	592.3	605.2	616.3
12.5°	553.5	566.4	572.0	588.6	603.4
15°	528.5	541.5	549.8	570.1	587.7
17.5°	501.7	514.7	525.8	547.0	564.6
20°	474.9	486.9	500.8	519.3	538.7
22.5°	445.4	458.3	471.2	488.8	511.0
25°	416.7	427.8	440.7	460.1	484.2
27.5°	386.2	398.2	410.3	433.4	458.3
30°	356.7	368.7	381.6	405.6	431.5
32.5°	325.2	338.2	351.1	377.9	404.7
35°	293.8	307.7	322.5	351.1	377.0
37.5°	263.3	278.1	295.7	325.2	347.4
40°	231.9	247.6	269.8	295.7	316.9
42.5°	198.7	218.1	244.9	267.0	286.4
45°	170.0	189.4	219.9	239.3	255.9
47.5°	148.8	164.5	194.0	210.7	224.5
50°	133.1	145.1	171.9	183.9	193.1
52.5°	120.1	132.1	150.6	158.9	161.7
55°	108.1	120.1	131.2	134.0	132.1
57.5°	96.1	109.0	115.5	112.7	112.7
60°	85.9	99.8	101.6	97.9	97.9
62.5°	75.8	89.6	89.6	85.0	85.0
65°	66.5	79.5	77.6	73.9	73.0
67.5°	58.2	70.2	67.5	63.8	62.8
70°	49.9	61.0	58.2	53.6	52.7
72.5°	42.5	52.7	49.0	45.3	43.4
75°	35.1	43.4	41.6	37.0	35.1
77.5°	28.6	35.1	33.3	29.6	27.7
80°	22.2	27.7	26.8	23.1	21.3
82.5°	16.6	21.3	20.3	17.6	14.8
85°	11.1	14.8	13.9	12.0	9.2
87.5°	5.5	10.2	9.2	8.3	4.6
90°	0.0	0.0	0.0	0.0	0.0



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	15.29	16.73	15.65	17.04	17.36	15.65	17.09	16.01	17.40	17.72
	3H	16.83	18.12	17.21	18.45	18.81	16.99	18.28	17.37	18.61	18.98
	4H	17.40	18.61	17.80	18.96	19.34	17.48	18.68	17.88	19.03	19.41
	6H	17.83	18.95	18.25	19.32	19.71	17.83	18.95	18.24	19.31	19.71
	8H	17.99	19.05	18.41	19.44	19.84	17.95	19.01	18.38	19.40	19.80
	12H	18.10	19.12	18.53	19.50	19.93	18.02	19.04	18.45	19.42	19.85
4H	2H	15.87	17.08	16.27	17.43	17.81	16.16	17.37	16.56	17.72	18.10
	3H	17.70	18.70	18.11	19.10	19.50	17.74	18.74	18.15	19.14	19.54
	4H	18.44	19.34	18.88	19.76	20.20	18.34	19.24	18.77	19.66	20.10
	6H	19.03	19.81	19.49	20.26	20.72	18.82	19.61	19.28	20.05	20.51
	8H	19.24	19.97	19.70	20.42	20.88	18.99	19.72	19.45	20.16	20.63
	12H	19.41	20.06	19.89	20.54	21.01	19.11	19.76	19.59	20.24	20.71
8H	4H	18.73	19.46	19.19	19.90	20.37	18.64	19.37	19.11	19.82	20.29
	6H	19.48	20.09	19.98	20.58	21.06	19.26	19.86	19.76	20.36	20.84
	8H	19.81	20.35	20.32	20.86	21.35	19.51	20.05	20.03	20.56	21.05
	12H	20.09	20.57	20.61	21.07	21.63	19.72	20.20	20.23	20.69	21.26
12H	4H	18.75	19.40	19.23	19.88	20.35	18.68	19.33	19.16	19.81	20.28
	6H	19.54	20.09	20.06	20.60	21.09	19.34	19.88	19.85	20.39	20.88
	8H	19.94	20.42	20.45	20.92	21.48	19.66	20.14	20.17	20.63	21.20