

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: P1058037

Luminaire Tested: S122RDRP-S675D830-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1058037
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: S122RDRP-S675D830-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: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

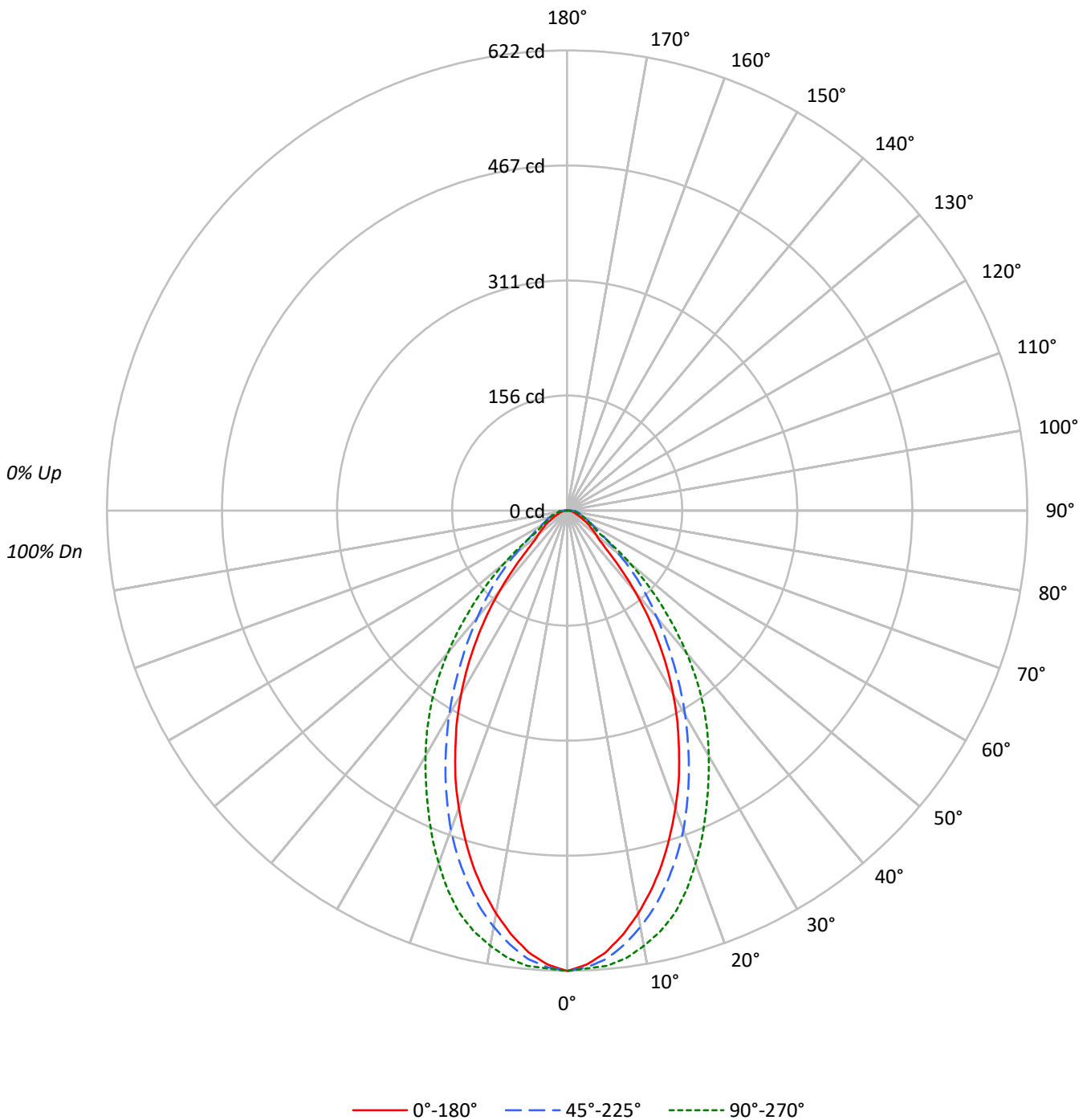
Lumens per Lamp: N/A
Luminaire Lumens: 754.8 lumens
Efficiency: N/A
Efficacy: 29.3 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 0.98 / 0.95
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11483	11483	11483
5°	11099	11269	11442
10°	10360	10706	11192
15°	9450	9945	10757
20°	8406	9023	9968
25°	7285	7926	9054
30°	6107	6797	8156
35°	4812	5623	7226
40°	3430	4543	6036
45°	2028	3596	4682
50°	1461	2601	3186
55°	1219	1876	1605
60°	989	1502	1365
65°	808	1332	1253
70°	696	1295	1198
75°	656	1319	1183
80°	691	1573	1275
85°	974	2541	1567

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4682 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.1	7.6
10°-20°	146.6	19.4
20°-30°	180.9	24.0
30°-40°	160.9	21.3
40°-50°	102.7	13.6
50°-60°	49.3	6.5
60°-70°	28.9	3.8
70°-80°	18.5	2.4
80°-90°	9.8	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°	384.6	51.0
0°-40°	545.5	72.3
0°-60°	697.5	92.4
0°-90°	754.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	754.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	622	622	622	622	622	
5°	599	610	608	612	618	56
15°	495	507	521	545	563	138
25°	358	372	389	417	445	164
35°	214	230	250	288	321	133
45°	78	101	138	160	179	65
55°	38	49	58	56	50	34
65°	18	33	30	28	29	19
75°	9	20	18	18	17	10
85°	5	11	12	10	7	5
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	622.3	622.3	622.3	622.3	622.3
2.5°	614.0	624.1	617.7	617.7	619.5
5°	599.2	610.3	608.4	612.1	617.7
7.5°	577.9	589.9	591.8	601.9	610.3
10°	552.9	565.9	571.4	586.2	597.3
12.5°	525.2	538.1	548.3	566.8	582.5
15°	494.7	506.7	520.6	544.6	563.1
17.5°	461.4	477.1	491.0	515.9	537.2
20°	428.1	442.9	459.5	483.6	507.6
22.5°	393.9	407.8	424.4	449.4	477.1
25°	357.8	371.7	389.3	417.0	444.7
27.5°	322.7	336.6	353.2	383.7	413.3
30°	286.6	300.5	319.0	350.4	382.8
32.5°	250.6	265.4	283.9	318.1	352.3
35°	213.6	230.2	249.6	287.6	320.8
37.5°	177.5	194.2	218.2	255.2	286.6
40°	142.4	161.8	188.6	221.9	250.6
42.5°	108.2	129.4	162.7	189.5	214.5
45°	77.7	100.8	137.8	160.0	179.4
47.5°	59.2	75.8	113.7	131.3	145.2
50°	50.9	61.0	90.6	103.6	111.0
52.5°	44.4	53.6	72.1	78.6	78.6
55°	37.9	49.0	58.3	56.4	49.9
57.5°	32.4	44.4	48.1	40.7	42.5
60°	26.8	40.7	40.7	36.1	37.0
62.5°	22.2	37.9	35.1	31.4	32.4
65°	18.5	33.3	30.5	27.7	28.7
67.5°	14.8	29.6	26.8	25.0	25.0
70°	12.9	26.8	24.0	22.2	22.2
72.5°	11.1	23.1	21.3	19.4	19.4
75°	9.2	20.3	18.5	17.6	16.6
77.5°	8.3	17.6	16.6	14.8	13.9
80°	6.5	14.8	14.8	13.9	12.0
82.5°	5.5	12.9	12.9	12.0	10.2
85°	4.6	11.1	12.0	10.2	7.4
87.5°	3.7	10.2	10.2	8.3	5.5
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	10.16	11.43	10.52	11.74	12.06	9.94	11.22	10.31	11.53	11.85
	3H	11.39	12.52	11.77	12.85	13.22	11.54	12.67	11.92	13.00	13.37
	4H	11.84	12.89	12.24	13.24	13.63	12.25	13.31	12.66	13.66	14.05
	6H	12.22	13.19	12.63	13.56	13.95	12.91	13.88	13.32	14.25	14.64
	8H	12.37	13.29	12.80	13.68	14.09	13.23	14.16	13.67	14.55	14.95
	12H	12.52	13.41	12.96	13.79	14.22	13.53	14.42	13.97	14.80	15.23
4H	2H	10.70	11.76	11.11	12.11	12.50	10.54	11.59	10.94	11.95	12.33
	3H	12.40	13.27	12.81	13.67	14.08	12.37	13.24	12.79	13.65	14.05
	4H	13.19	13.97	13.62	14.39	14.83	13.25	14.03	13.68	14.45	14.89
	6H	13.83	14.51	14.30	14.96	15.42	14.09	14.77	14.56	15.22	15.68
	8H	14.08	14.71	14.55	15.16	15.63	14.52	15.15	14.99	15.60	16.07
	12H	14.33	14.89	14.81	15.37	15.84	14.92	15.48	15.41	15.96	16.44
8H	4H	13.61	14.24	14.08	14.69	15.16	13.66	14.30	14.13	14.74	15.22
	6H	14.59	15.10	15.09	15.60	16.08	14.75	15.27	15.25	15.77	16.25
	8H	15.07	15.54	15.60	16.06	16.55	15.34	15.81	15.86	16.33	16.82
	12H	15.57	15.99	16.09	16.48	17.05	15.95	16.36	16.46	16.85	17.42
12H	4H	13.67	14.23	14.16	14.72	15.19	13.74	14.30	14.23	14.78	15.26
	6H	14.75	15.22	15.28	15.74	16.23	14.91	15.38	15.44	15.90	16.39
	8H	15.39	15.80	15.90	16.29	16.87	15.63	16.04	16.14	16.53	17.10