

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: P1058083

Luminaire Tested: S122RDRP-S675D930-X4F0-XX-UDD-WVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1058083
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: S122RDRP-S675D930-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: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

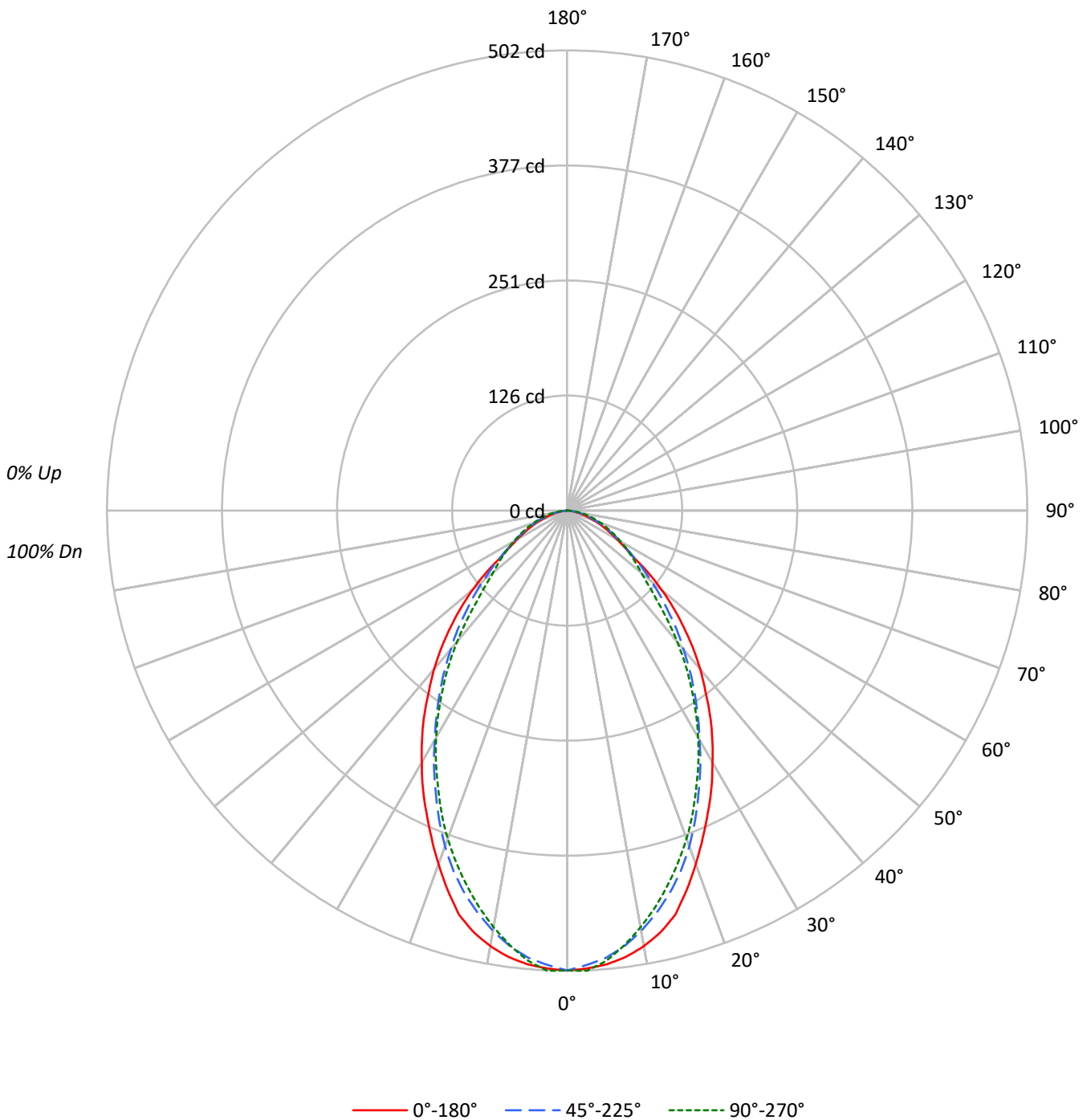
Lumens per Lamp: N/A
Luminaire Lumens: 761.8 lumens
Efficiency: N/A
Efficacy: 29.5 lumens/watt
Spacing Criteria (0/90/45): 1 / 0.92 / 1.02
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 25.8
Input Voltage (V): 120
Input Current (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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88
2	103	96	91	86	100	94	89	85	91	87	83	88	84	81	85	82	79	77
3	95	87	80	74	93	85	79	74	82	77	73	80	75	71	77	73	70	68
4	89	79	71	65	87	77	70	65	75	69	64	73	68	63	71	66	63	61
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54
6	77	66	58	52	75	65	57	52	63	56	52	61	56	51	60	55	51	49
7	72	60	53	47	71	60	52	47	58	52	47	57	51	47	56	50	46	44
8	68	56	48	43	66	55	48	43	54	47	43	53	47	43	52	46	42	41
9	64	52	45	40	63	51	44	39	50	44	39	49	43	39	48	43	39	37
10	60	48	41	36	59	48	41	36	47	41	36	46	40	36	45	40	36	34

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9256	9256	9256
5°	9202	9069	9128
10°	9039	8724	8649
15°	8713	8255	8086
20°	8061	7654	7482
25°	7399	6910	6782
30°	6756	6160	6092
35°	6118	5451	5325
40°	5444	4753	4502
45°	4689	4084	3606
50°	3875	3439	3026
55°	2802	2854	2725
60°	2329	2447	2476
65°	1987	2126	2266
70°	1640	1894	2066
75°	1369	1597	1882
80°	1020	1275	1700
85°	339	677	1524

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4689 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.4	6.1
10°-20°	122.1	16.0
20°-30°	158.0	20.7
30°-40°	155.0	20.3
40°-50°	122.0	16.0
50°-60°	80.0	10.5
60°-70°	48.7	6.4
70°-80°	24.4	3.2
80°-90°	5.2	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°	326.5	42.9
0°-40°	481.5	63.2
0°-60°	683.5	89.7
0°-90°	761.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	761.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	502	502	502	502	502	
5°	497	497	490	493	493	47
15°	456	450	432	426	423	127
25°	363	351	339	338	333	167
35°	272	256	242	241	236	169
45°	180	168	156	145	138	139
55°	87	92	89	86	85	83
65°	46	46	49	51	52	45
75°	19	20	22	26	26	20
85°	2	2	3	6	7	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	501.6	501.6	501.6	501.6	501.6
2.5°	500.0	500.8	496.0	500.8	502.4
5°	496.8	496.8	489.6	492.8	492.8
7.5°	491.2	490.4	479.2	479.2	478.4
10°	482.4	479.2	465.6	463.2	461.6
12.5°	471.2	465.6	449.7	445.7	443.3
15°	456.1	449.7	432.1	426.5	423.3
17.5°	433.7	427.3	412.1	405.7	402.5
20°	410.5	400.9	389.8	384.2	381.0
22.5°	386.6	375.4	365.0	361.0	357.8
25°	363.4	351.4	339.4	337.8	333.1
27.5°	341.0	326.7	314.7	313.9	309.9
30°	317.1	301.9	289.1	289.9	285.9
32.5°	294.7	280.3	265.2	266.0	261.2
35°	271.6	256.4	242.0	241.2	236.4
37.5°	247.6	233.2	219.6	216.4	211.7
40°	226.0	211.7	197.3	191.7	186.9
42.5°	202.9	190.1	177.3	168.5	162.1
45°	179.7	168.5	156.5	145.4	138.2
47.5°	157.3	148.6	138.2	124.6	119.8
50°	135.0	128.6	119.8	107.8	105.4
52.5°	111.8	109.4	103.8	95.8	95.0
55°	87.1	91.8	88.7	85.5	84.7
57.5°	73.5	74.3	76.7	75.9	75.9
60°	63.1	63.1	66.3	67.1	67.1
62.5°	53.5	54.3	57.5	59.1	59.1
65°	45.5	46.3	48.7	51.1	51.9
67.5°	37.5	39.1	41.5	43.9	44.7
70°	30.4	31.9	35.1	37.5	38.3
72.5°	24.8	25.6	28.8	31.1	31.9
75°	19.2	20.0	22.4	25.6	26.4
77.5°	13.6	15.2	17.6	20.0	21.6
80°	9.6	10.4	12.0	15.2	16.0
82.5°	5.6	6.4	8.0	10.4	11.2
85°	1.6	2.4	3.2	5.6	7.2
87.5°	0.0	0.0	0.0	1.6	3.2
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	13.86	15.25	14.22	15.56	15.88	14.03	15.43	14.40	15.74	16.06
	3H	14.99	16.23	15.36	16.56	16.92	15.49	16.74	15.87	17.07	17.43
	4H	15.34	16.50	15.74	16.85	17.23	16.03	17.20	16.44	17.55	17.93
	6H	15.52	16.59	15.94	16.96	17.36	16.45	17.52	16.86	17.89	18.28
	8H	15.55	16.57	15.98	16.96	17.36	16.58	17.59	17.01	17.98	18.39
	12H	15.54	16.51	15.97	16.89	17.32	16.66	17.63	17.09	18.02	18.45
4H	2H	14.31	15.48	14.71	15.83	16.21	14.46	15.62	14.86	15.97	16.36
	3H	15.65	16.61	16.06	17.01	17.41	16.13	17.09	16.54	17.49	17.89
	4H	16.10	16.95	16.53	17.37	17.81	16.80	17.66	17.23	18.07	18.51
	6H	16.37	17.11	16.83	17.56	18.02	17.33	18.08	17.79	18.52	18.98
	8H	16.41	17.11	16.88	17.55	18.02	17.50	18.20	17.97	18.64	19.11
	12H	16.41	17.02	16.89	17.51	17.98	17.62	18.24	18.11	18.72	19.19
8H	4H	16.31	17.00	16.78	17.45	17.92	16.95	17.64	17.41	18.09	18.56
	6H	16.66	17.23	17.16	17.72	18.20	17.58	18.15	18.08	18.64	19.12
	8H	16.74	17.25	17.26	17.76	18.25	17.81	18.32	18.33	18.84	19.33
	12H	16.75	17.20	17.27	17.70	18.27	18.00	18.45	18.51	18.94	19.51
12H	4H	16.32	16.94	16.81	17.42	17.89	16.93	17.55	17.42	18.03	18.50
	6H	16.68	17.19	17.20	17.71	18.20	17.57	18.08	18.09	18.60	19.09
	8H	16.80	17.25	17.31	17.74	18.31	17.85	18.30	18.36	18.79	19.36