

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: P1175373

Luminaire Tested: S125RDRP-S375D950-X4F0-XX-UDD-WVL-W

Issue Date: 8/18/2025

Test Information

Test Method: LM-79-2024
Report Number: P1175373
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-82)
Test Lab: INNOVATION CENTER
Issue Date: 8/18/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-S375D950-X4F0-XX-UDD-WVL-W
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

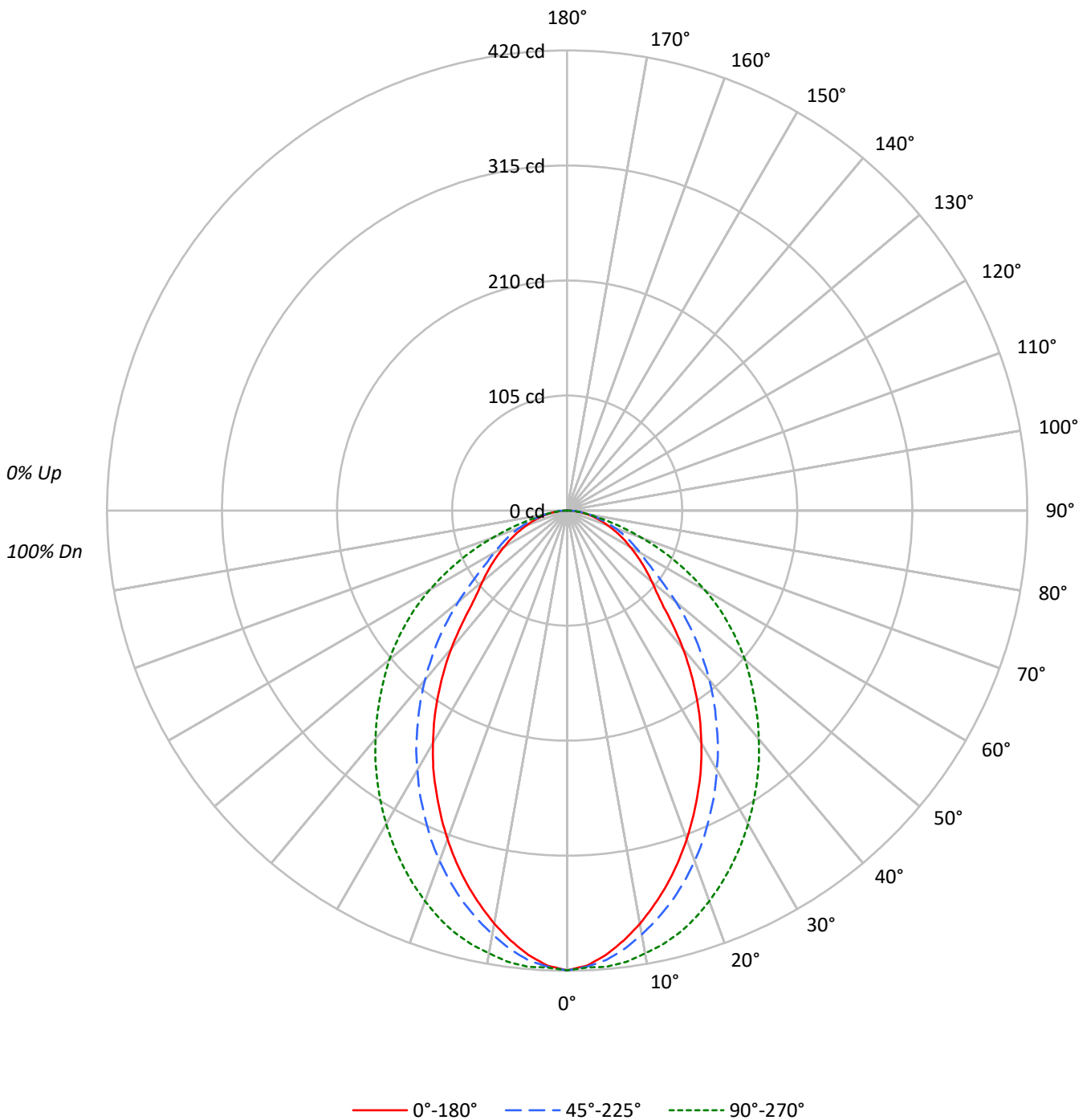
Lumens per Lamp: N/A
Luminaire Lumens: 790.4 lumens
Efficiency: N/A
Efficacy: 63.2 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 12.5
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	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76	74
3	93	84	76	71	91	82	75	70	79	73	69	77	72	68	74	70	66	64
4	86	75	67	61	84	74	66	61	72	65	60	69	64	59	67	62	58	56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44
7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40
8	65	52	44	39	63	51	44	39	50	43	38	49	43	38	48	42	38	36
9	61	48	40	35	59	48	40	35	46	40	35	45	39	35	44	39	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2889	2889	2889
5°	2814	2845	2888
10°	2677	2746	2869
15°	2516	2630	2841
20°	2338	2495	2779
25°	2148	2338	2706
30°	1948	2172	2625
35°	1724	1997	2538
40°	1479	1815	2446
45°	1214	1616	2352
50°	1080	1388	2270
55°	996	1163	2155
60°	917	1059	1997
65°	854	999	1764
70°	795	932	1441
75°	748	862	1080
80°	706	789	777
85°	648	790	648

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 2352 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.8	4.9
10°-20°	104.7	13.2
20°-30°	144.0	18.2
30°-40°	152.8	19.3
40°-50°	133.7	16.9
50°-60°	102.6	13.0
60°-70°	68.3	8.6
70°-80°	35.0	4.4
80°-90°	10.4	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°	287.6	36.4
0°-40°	440.3	55.7
0°-60°	676.6	85.6
0°-90°	790.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	790.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	420	420	420	420	420	
5°	407	412	412	415	418	38
15°	353	361	369	386	398	99
25°	283	292	308	334	356	130
35°	205	215	238	272	302	128
45°	125	135	166	207	242	98
55°	83	85	97	144	180	74
65°	52	53	61	80	108	52
75°	28	30	32	34	41	30
85°	8	9	10	10	8	9
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	419.6	419.6	419.6	419.6	419.6
2.5°	415.6	419.9	416.7	417.1	417.4
5°	407.1	412.4	411.7	414.6	417.8
7.5°	395.7	401.4	403.2	410.3	415.3
10°	382.9	389.3	392.8	403.5	410.3
12.5°	368.3	375.7	381.4	395.3	405.3
15°	353.0	361.1	369.0	386.4	398.5
17.5°	336.6	344.8	355.1	375.0	389.6
20°	319.1	328.0	340.5	361.9	379.3
22.5°	301.3	310.6	324.8	348.3	368.3
25°	282.8	292.4	307.7	333.7	356.2
27.5°	264.6	273.5	291.3	319.1	343.7
30°	245.0	254.3	273.2	303.8	330.2
32.5°	225.4	234.7	256.4	288.5	316.3
35°	205.1	214.8	237.6	272.5	302.0
37.5°	184.8	194.8	220.1	256.1	287.4
40°	164.5	175.2	201.9	239.7	272.1
42.5°	143.9	155.3	183.4	223.7	257.1
45°	124.7	135.0	166.0	207.3	241.5
47.5°	110.8	116.8	147.5	190.5	226.5
50°	100.8	103.6	129.6	174.5	211.9
52.5°	91.9	93.7	112.2	159.6	195.9
55°	83.0	84.8	96.9	143.9	179.5
57.5°	74.4	75.5	85.5	128.2	163.1
60°	66.6	67.3	76.9	112.5	145.0
62.5°	59.5	59.8	68.7	96.5	126.8
65°	52.4	52.7	61.3	80.5	108.3
67.5°	45.9	45.9	54.1	65.9	90.5
70°	39.5	39.5	46.3	53.4	71.6
72.5°	33.8	34.5	39.2	43.1	55.9
75°	28.1	29.9	32.4	34.2	40.6
77.5°	22.8	24.9	26.0	26.7	27.1
80°	17.8	19.2	19.9	20.3	19.6
82.5°	13.2	14.2	14.6	14.6	13.5
85°	8.2	9.3	10.0	9.6	8.2
87.5°	3.9	5.3	5.7	5.0	3.9
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	10.30	11.80	10.67	12.11	12.43	14.33	15.82	14.69	16.14	16.45
	3H	11.88	13.23	12.26	13.56	13.92	15.71	17.06	16.09	17.39	17.75
	4H	12.53	13.79	12.93	14.14	14.52	16.12	17.38	16.52	17.73	18.11
	6H	13.04	14.20	13.45	14.57	14.96	16.33	17.49	16.74	17.86	18.25
	8H	13.22	14.33	13.64	14.72	15.12	16.38	17.49	16.81	17.88	18.28
	12H	13.34	14.41	13.78	14.79	15.22	16.42	17.48	16.85	17.86	18.29
4H	2H	11.07	12.33	11.47	12.68	13.06	14.46	15.72	14.86	16.06	16.44
	3H	12.85	13.90	13.26	14.30	14.70	16.03	17.07	16.44	17.47	17.87
	4H	13.62	14.56	14.05	14.98	15.41	16.54	17.48	16.97	17.89	18.33
	6H	14.26	15.08	14.71	15.52	15.98	16.86	17.68	17.32	18.12	18.58
	8H	14.49	15.25	14.95	15.70	16.16	16.96	17.73	17.43	18.17	18.64
	12H	14.66	15.34	15.14	15.82	16.29	17.03	17.72	17.52	18.20	18.67
8H	4H	14.00	14.77	14.47	15.21	15.68	16.64	17.40	17.10	17.85	18.31
	6H	14.78	15.41	15.27	15.90	16.38	17.05	17.69	17.55	18.18	18.66
	8H	15.09	15.66	15.61	16.17	16.66	17.21	17.78	17.73	18.29	18.78
	12H	15.36	15.86	15.87	16.35	16.92	17.35	17.85	17.86	18.35	18.91
12H	4H	14.04	14.72	14.52	15.20	15.67	16.63	17.32	17.12	17.80	18.27
	6H	14.85	15.42	15.37	15.93	16.42	17.07	17.64	17.58	18.15	18.63
	8H	15.24	15.74	15.75	16.23	16.79	17.28	17.78	17.79	18.27	18.84