

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: P1175365

Luminaire Tested: S125RDRP-S375D830-X4F0-XX-UDD-WVL-W

Issue Date: 8/18/2025

Test Information

Test Method: LM-79-2024
Report Number: P1175365
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-S375D830-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: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

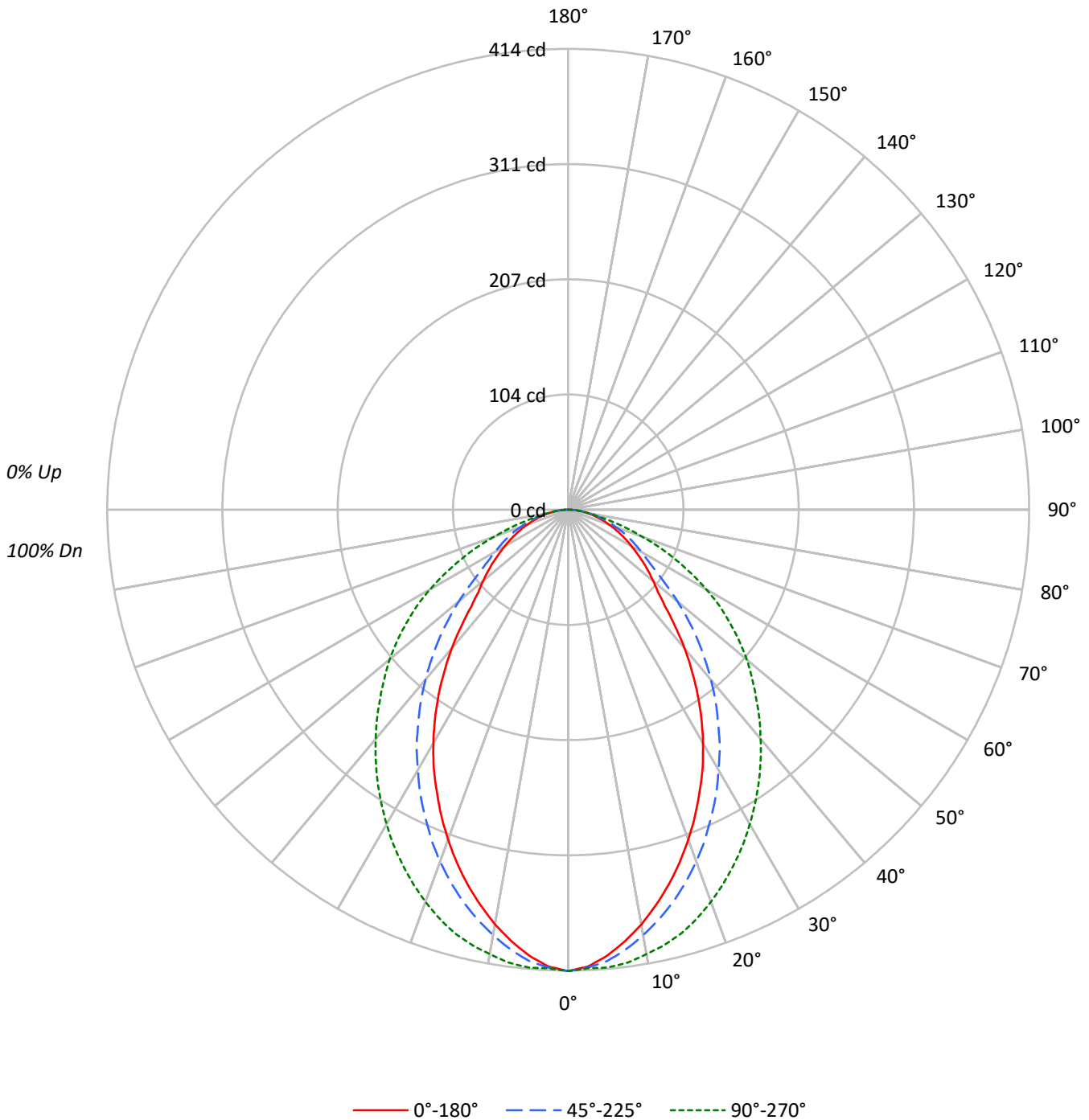
Lumens per Lamp: N/A
Luminaire Lumens: 780.9 lumens
Efficiency: N/A
Efficacy: 62.5 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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°	2854	2854	2854
5°	2780	2812	2853
10°	2645	2713	2834
15°	2486	2599	2807
20°	2310	2465	2746
25°	2123	2309	2673
30°	1925	2146	2593
35°	1704	1973	2508
40°	1461	1793	2416
45°	1200	1597	2323
50°	1067	1372	2243
55°	984	1149	2128
60°	906	1047	1972
65°	842	986	1743
70°	787	920	1423
75°	740	851	1067
80°	698	781	769
85°	640	782	640

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 2323 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.4	4.9
10°-20°	103.4	13.2
20°-30°	142.3	18.2
30°-40°	150.9	19.3
40°-50°	132.1	16.9
50°-60°	101.4	13.0
60°-70°	67.5	8.6
70°-80°	34.6	4.4
80°-90°	10.3	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°	284.1	36.4
0°-40°	435.0	55.7
0°-60°	668.5	85.6
0°-90°	780.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	780.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	414	414	414	414	414	
5°	402	408	407	410	413	38
15°	349	357	365	382	394	98
25°	279	289	304	330	352	128
35°	203	212	235	269	298	126
45°	123	133	164	205	239	97
55°	82	84	96	142	177	73
65°	52	52	60	80	107	52
75°	28	30	32	34	40	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°	414.5	414.5	414.5	414.5	414.5
2.5°	410.6	414.9	411.7	412.1	412.4
5°	402.2	407.5	406.8	409.6	412.8
7.5°	390.9	396.6	398.3	405.4	410.3
10°	378.3	384.6	388.1	398.7	405.4
12.5°	363.8	371.2	376.9	390.6	400.4
15°	348.7	356.8	364.6	381.8	393.8
17.5°	332.5	340.6	350.8	370.5	385.0
20°	315.3	324.1	336.4	357.5	374.8
22.5°	297.7	306.8	320.9	344.1	363.8
25°	279.4	288.9	304.0	329.7	351.9
27.5°	261.4	270.2	287.8	315.3	339.6
30°	242.1	251.2	269.9	300.2	326.2
32.5°	222.7	231.9	253.4	285.0	312.5
35°	202.7	212.2	234.7	269.2	298.4
37.5°	182.6	192.5	217.5	253.0	284.0
40°	162.6	173.1	199.5	236.8	268.8
42.5°	142.2	153.4	181.2	221.0	254.1
45°	123.2	133.4	164.0	204.8	238.6
47.5°	109.4	115.4	145.7	188.3	223.8
50°	99.6	102.4	128.1	172.4	209.4
52.5°	90.8	92.5	110.8	157.6	193.5
55°	82.0	83.7	95.7	142.2	177.3
57.5°	73.5	74.6	84.5	126.7	161.2
60°	65.8	66.5	76.0	111.2	143.2
62.5°	58.8	59.1	67.9	95.4	125.3
65°	51.7	52.1	60.5	79.5	107.0
67.5°	45.4	45.4	53.5	65.1	89.4
70°	39.1	39.1	45.7	52.8	70.7
72.5°	33.4	34.1	38.7	42.6	55.2
75°	27.8	29.6	32.0	33.8	40.1
77.5°	22.5	24.6	25.7	26.4	26.7
80°	17.6	19.0	19.7	20.1	19.4
82.5°	13.0	14.1	14.4	14.4	13.4
85°	8.1	9.1	9.9	9.5	8.1
87.5°	3.9	5.3	5.6	4.9	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	10.26	11.76	10.62	12.07	12.39	14.29	15.78	14.65	16.10	16.41
	3H	11.85	13.19	12.22	13.52	13.88	15.67	17.02	16.05	17.34	17.71
	4H	12.49	13.75	12.89	14.10	14.48	16.08	17.34	16.48	17.69	18.07
	6H	13.00	14.16	13.41	14.53	14.92	16.28	17.45	16.70	17.81	18.21
	8H	13.18	14.29	13.61	14.68	15.08	16.34	17.45	16.77	17.84	18.24
	12H	13.30	14.37	13.74	14.75	15.18	16.37	17.44	16.81	17.82	18.25
4H	2H	11.03	12.29	11.43	12.64	13.02	14.41	15.68	14.81	16.02	16.40
	3H	12.81	13.86	13.22	14.26	14.66	15.98	17.03	16.40	17.43	17.83
	4H	13.58	14.52	14.01	14.94	15.38	16.49	17.44	16.93	17.85	18.29
	6H	14.22	15.04	14.68	15.48	15.94	16.82	17.64	17.28	18.08	18.54
	8H	14.45	15.21	14.91	15.66	16.13	16.92	17.69	17.38	18.13	18.60
	12H	14.62	15.30	15.10	15.78	16.25	16.99	17.68	17.48	18.15	18.63
8H	4H	13.96	14.73	14.43	15.17	15.64	16.59	17.36	17.06	17.80	18.27
	6H	14.74	15.37	15.24	15.86	16.34	17.01	17.65	17.51	18.14	18.62
	8H	15.06	15.62	15.57	16.13	16.62	17.17	17.74	17.69	18.25	18.74
	12H	15.32	15.82	15.83	16.31	16.88	17.31	17.81	17.82	18.30	18.87
12H	4H	14.00	14.69	14.49	15.16	15.64	16.59	17.28	17.08	17.76	18.23
	6H	14.81	15.38	15.33	15.89	16.38	17.03	17.59	17.54	18.10	18.59
	8H	15.20	15.70	15.71	16.19	16.76	17.24	17.74	17.75	18.23	18.79