

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: P1061620

Luminaire Tested: S125RDRP-S375D840-X4F0-XX-UDD-WVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061620
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-46)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-S375D840-X4F0-XX-UDD-WVL-B
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

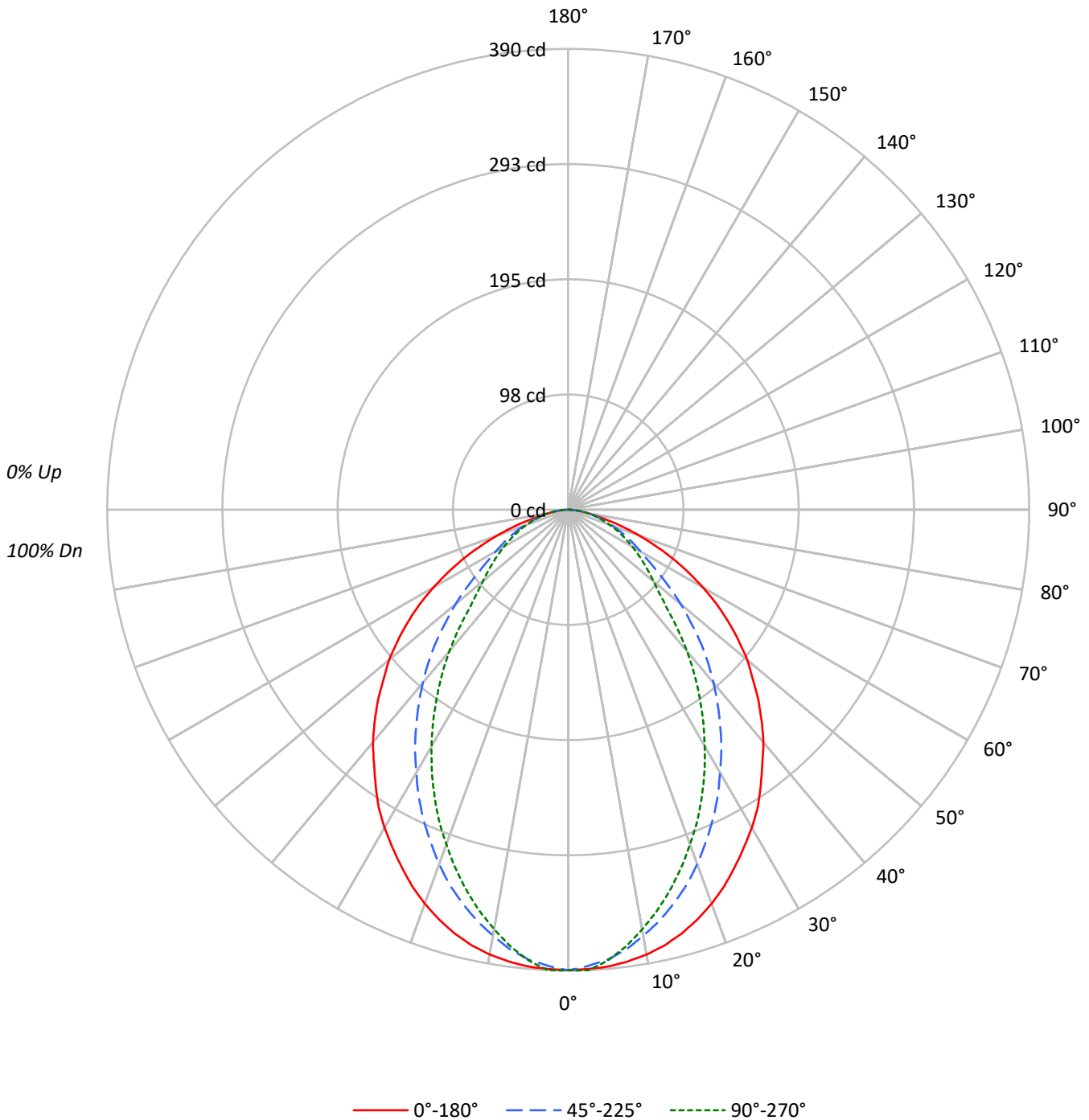
Lumens per Lamp: N/A
Luminaire Lumens: 738.4 lumens
Efficiency: N/A
Efficacy: 59.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.95 / 1.11
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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	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	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89					87				
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	80	77					75				
3	93	84	77	71	91	82	76	70	80	74	69	77	72	68	74	70	67					65				
4	86	75	68	61	84	74	67	61	72	65	60	70	64	59	67	63	59					57				
5	80	68	60	54	78	67	59	54	65	58	53	63	57	53	61	56	52					50				
6	74	62	54	48	73	61	53	48	59	53	47	58	52	47	56	51	47					45				
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42					40				
8	65	52	44	39	63	52	44	39	50	43	39	49	43	38	48	42	38					36				
9	61	48	41	35	60	48	40	35	47	40	35	46	39	35	45	39	35					33				
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32					30				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2684	2684	2684
5°	2682	2642	2647
10°	2672	2560	2521
15°	2646	2458	2374
20°	2599	2338	2208
25°	2534	2199	2032
30°	2470	2042	1837
35°	2387	1885	1629
40°	2309	1719	1404
45°	2213	1538	1150
50°	2118	1333	1007
55°	1987	1113	930
60°	1812	974	869
65°	1585	890	806
70°	1286	801	749
75°	923	732	697
80°	638	654	654
85°	466	569	600

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2213 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.2	4.9
10°-20°	98.0	13.3
20°-30°	135.5	18.3
30°-40°	144.3	19.5
40°-50°	126.8	17.2
50°-60°	96.1	13.0
60°-70°	62.4	8.5
70°-80°	30.9	4.2
80°-90°	8.1	1.1
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°	269.8	36.5
0°-40°	414.1	56.1
0°-60°	637.0	86.3
0°-90°	738.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	738.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	390	390	390	390	390	
5°	388	387	382	384	383	37
15°	371	363	345	337	333	105
25°	334	315	290	275	268	154
35°	284	258	224	204	194	178
45°	227	196	158	130	118	175
55°	166	133	93	80	78	148
65°	97	72	55	50	50	96
75°	35	30	28	27	26	39
85°	6	7	7	7	8	7
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	389.8	389.8	389.8	389.8	389.8
2.5°	389.0	389.8	386.4	389.4	390.2
5°	388.1	387.3	382.2	383.5	383.0
7.5°	385.6	383.9	375.4	374.6	372.9
10°	382.2	377.9	366.1	363.1	360.6
12.5°	377.5	370.8	356.4	350.4	347.5
15°	371.2	362.7	344.9	336.9	333.1
17.5°	363.6	351.7	333.1	322.1	317.8
20°	354.7	340.7	319.1	306.4	301.3
22.5°	344.9	328.4	304.3	290.8	285.3
25°	333.5	315.3	289.5	274.7	267.5
27.5°	322.1	301.8	273.8	257.3	249.7
30°	310.7	287.4	256.9	239.1	231.1
32.5°	298.4	272.6	241.2	221.8	212.5
35°	284.0	257.8	224.3	204.0	193.8
37.5°	270.0	242.1	207.8	185.0	175.2
40°	256.9	227.3	191.3	166.3	156.2
42.5°	242.1	211.6	174.8	148.6	137.1
45°	227.3	195.5	157.9	129.5	118.1
47.5°	211.6	180.3	140.1	112.2	104.5
50°	197.7	164.6	124.4	99.0	94.0
52.5°	181.6	149.4	108.3	88.9	85.5
55°	165.5	132.9	92.7	80.0	77.5
57.5°	149.0	118.1	80.4	72.4	69.8
60°	131.6	102.8	70.7	64.3	63.1
62.5°	114.3	87.2	62.2	57.6	55.9
65°	97.3	72.4	54.6	50.4	49.5
67.5°	80.0	58.8	47.0	44.0	43.6
70°	63.9	47.8	39.8	38.1	37.2
72.5°	49.1	38.1	33.4	32.2	31.7
75°	34.7	30.5	27.5	26.7	26.2
77.5°	23.3	23.3	22.0	21.2	21.6
80°	16.1	16.9	16.5	16.5	16.5
82.5°	10.6	11.4	11.9	11.9	11.9
85°	5.9	6.8	7.2	7.2	7.6
87.5°	2.1	2.5	3.0	3.4	3.4
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	13.98	15.48	14.35	15.79	16.10	10.23	11.72	10.59	12.03	12.35
	3H	15.29	16.63	15.67	16.96	17.32	11.81	13.14	12.19	13.47	13.83
	4H	15.66	16.92	16.06	17.27	17.65	12.41	13.66	12.81	14.01	14.39
	6H	15.84	17.00	16.25	17.36	17.76	12.88	14.04	13.29	14.41	14.80
	8H	15.88	16.98	16.30	17.37	17.77	13.04	14.14	13.47	14.53	14.93
	12H	15.89	16.94	16.32	17.32	17.75	13.16	14.21	13.59	14.59	15.02
4H	2H	14.10	15.35	14.50	15.70	16.08	10.89	12.14	11.29	12.49	12.87
	3H	15.58	16.62	15.99	17.02	17.42	12.67	13.71	13.08	14.11	14.51
	4H	16.06	16.99	16.49	17.41	17.85	13.39	14.32	13.82	14.74	15.17
	6H	16.34	17.15	16.80	17.60	18.06	13.98	14.79	14.43	15.23	15.69
	8H	16.41	17.17	16.88	17.61	18.08	14.18	14.94	14.65	15.38	15.85
	12H	16.45	17.13	16.94	17.61	18.08	14.34	15.01	14.82	15.49	15.96
8H	4H	16.14	16.90	16.61	17.34	17.81	13.70	14.45	14.16	14.90	15.37
	6H	16.50	17.13	17.00	17.62	18.10	14.40	15.03	14.90	15.52	16.00
	8H	16.62	17.18	17.14	17.69	18.18	14.69	15.25	15.20	15.76	16.25
	12H	16.71	17.20	17.22	17.70	18.26	14.92	15.41	15.43	15.90	16.47
12H	4H	16.14	16.81	16.62	17.29	17.76	13.72	14.40	14.21	14.88	15.35
	6H	16.51	17.07	17.02	17.58	18.07	14.46	15.02	14.97	15.53	16.02
	8H	16.67	17.16	17.18	17.65	18.22	14.79	15.29	15.30	15.78	16.35