

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: P1061665

Luminaire Tested: S125RDRP-S375D940-X4F0-XX-UDD-WVL-B

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1061665  
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-S375D940-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, 90 CRI LEDS  
Ballast/Driver: -

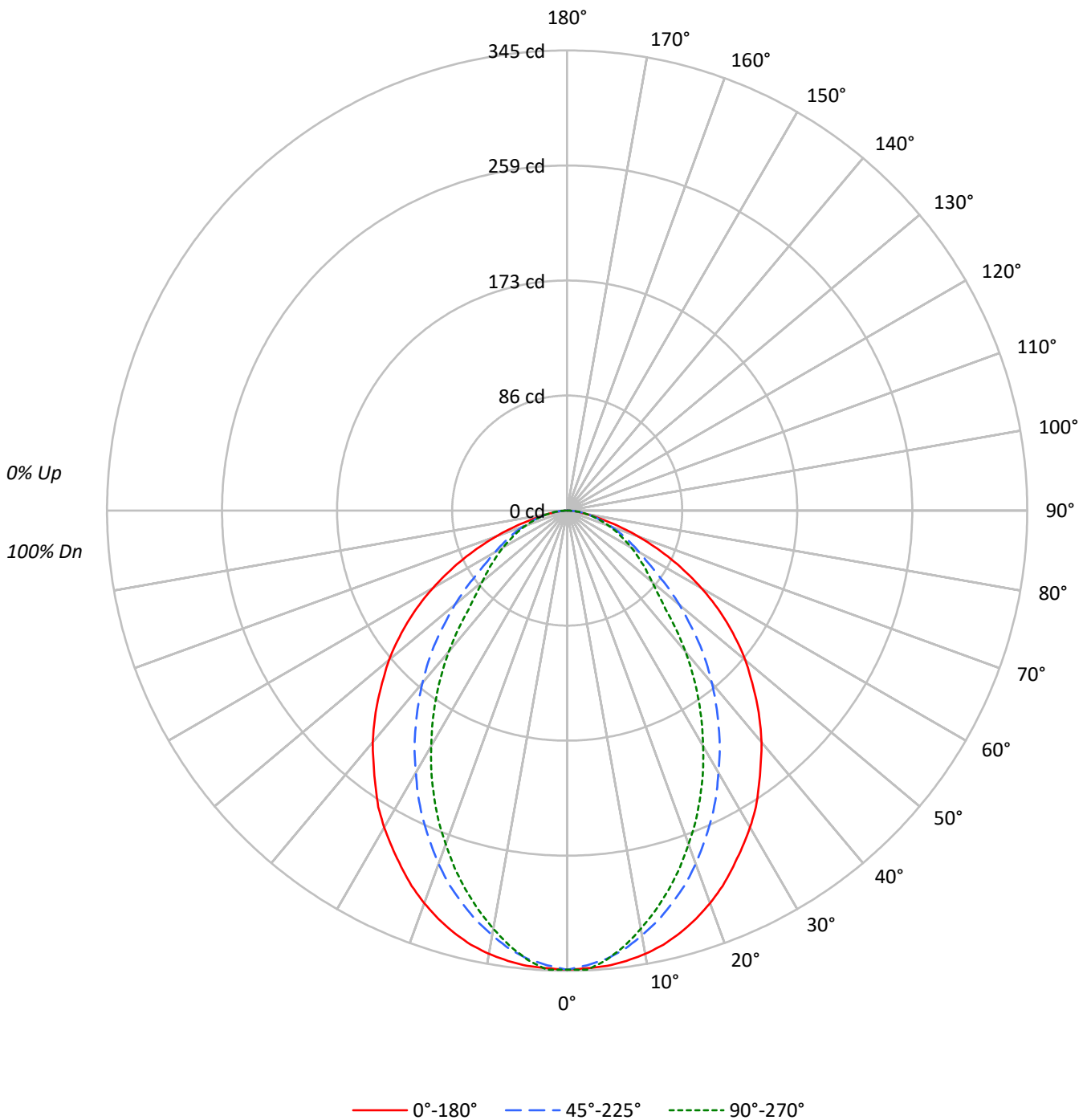
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 652.0 lumens  
Efficiency: N/A  
Efficacy: 52.2 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<sub>in</sub>): 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	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	76	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°	2370	2370	2370
5°	2369	2333	2337
10°	2360	2260	2226
15°	2336	2171	2096
20°	2295	2065	1950
25°	2237	1942	1794
30°	2181	1803	1622
35°	2108	1665	1439
40°	2038	1518	1239
45°	1954	1357	1016
50°	1869	1177	889
55°	1754	982	821
60°	1600	859	767
65°	1401	785	712
70°	1135	707	662
75°	814	646	617
80°	563	579	579
85°	411	506	529

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1954 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	32.0	4.9
10°-20°	86.6	13.3
20°-30°	119.6	18.3
30°-40°	127.4	19.5
40°-50°	112.0	17.2
50°-60°	84.9	13.0
60°-70°	55.1	8.5
70°-80°	27.3	4.2
80°-90°	7.2	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°	238.2	36.5
0°-40°	365.6	56.1
0°-60°	562.5	86.3
0°-90°	652.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	652.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	344	344	344	344	344	
5°	343	342	338	339	338	33
15°	328	320	305	298	294	92
25°	294	278	256	242	236	136
35°	251	228	198	180	171	157
45°	201	173	139	114	104	155
55°	146	117	82	71	68	130
65°	86	64	48	44	44	85
75°	31	27	24	24	23	34
85°	5	6	6	6	7	6
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	344.2	344.2	344.2	344.2	344.2
2.5°	343.4	344.2	341.2	343.8	344.6
5°	342.7	342.0	337.5	338.6	338.2
7.5°	340.5	339.0	331.5	330.7	329.2
10°	337.5	333.7	323.3	320.6	318.4
12.5°	333.4	327.4	314.7	309.4	306.8
15°	327.7	320.3	304.6	297.5	294.1
17.5°	321.0	310.6	294.1	284.4	280.7
20°	313.2	300.8	281.8	270.6	266.1
22.5°	304.6	290.0	268.7	256.7	251.9
25°	294.5	278.4	255.6	242.5	236.2
27.5°	284.4	266.5	241.8	227.2	220.5
30°	274.3	253.8	226.8	211.1	204.0
32.5°	263.5	240.7	213.0	195.8	187.6
35°	250.8	227.6	198.1	180.1	171.2
37.5°	238.4	213.8	183.5	163.3	154.7
40°	226.8	200.7	168.9	146.9	137.9
42.5°	213.8	186.9	154.3	131.2	121.1
45°	200.7	172.7	139.4	114.4	104.3
47.5°	186.9	159.2	123.7	99.0	92.3
50°	174.5	145.4	109.9	87.4	83.0
52.5°	160.3	131.9	95.7	78.5	75.5
55°	146.1	117.3	81.8	70.6	68.4
57.5°	131.5	104.3	71.0	63.9	61.7
60°	116.2	90.8	62.4	56.8	55.7
62.5°	100.9	77.0	54.9	50.8	49.3
65°	86.0	63.9	48.2	44.5	43.7
67.5°	70.6	51.9	41.5	38.9	38.5
70°	56.4	42.2	35.1	33.6	32.9
72.5°	43.4	33.6	29.5	28.4	28.0
75°	30.6	26.9	24.3	23.5	23.2
77.5°	20.6	20.6	19.4	18.7	19.1
80°	14.2	14.9	14.6	14.6	14.6
82.5°	9.3	10.1	10.5	10.5	10.5
85°	5.2	6.0	6.4	6.4	6.7
87.5°	1.9	2.2	2.6	3.0	3.0
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	13.55	15.04	13.92	15.36	15.67	9.79	11.28	10.16	11.60	11.91
	3H	14.86	16.20	15.24	16.53	16.89	11.38	12.71	11.75	13.04	13.40
	4H	15.23	16.48	15.63	16.83	17.21	11.98	13.23	12.38	13.58	13.96
	6H	15.41	16.56	15.82	16.93	17.32	12.45	13.61	12.86	13.98	14.37
	8H	15.44	16.54	15.87	16.93	17.34	12.61	13.71	13.04	14.10	14.50
	12H	15.46	16.51	15.89	16.89	17.32	12.72	13.78	13.16	14.16	14.59
4H	2H	13.66	14.92	14.06	15.27	15.64	10.45	11.71	10.85	12.06	12.43
	3H	15.15	16.19	15.56	16.59	16.99	12.23	13.27	12.65	13.67	14.07
	4H	15.62	16.56	16.06	16.97	17.41	12.95	13.89	13.38	14.30	14.74
	6H	15.91	16.72	16.37	17.16	17.62	13.54	14.35	14.00	14.80	15.26
	8H	15.98	16.74	16.44	17.18	17.65	13.75	14.51	14.21	14.95	15.42
	12H	16.02	16.69	16.50	17.17	17.65	13.90	14.58	14.39	15.06	15.53
8H	4H	15.71	16.46	16.17	16.91	17.38	13.26	14.02	13.73	14.46	14.93
	6H	16.07	16.70	16.57	17.19	17.67	13.97	14.60	14.47	15.09	15.57
	8H	16.19	16.75	16.70	17.26	17.75	14.25	14.81	14.77	15.32	15.81
	12H	16.27	16.77	16.78	17.26	17.83	14.48	14.98	14.99	15.47	16.04
12H	4H	15.70	16.38	16.18	16.86	17.33	13.29	13.96	13.77	14.44	14.92
	6H	16.07	16.64	16.59	17.15	17.63	14.02	14.58	14.54	15.10	15.58
	8H	16.23	16.73	16.74	17.22	17.79	14.36	14.86	14.87	15.35	15.92