

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: P1061656

Luminaire Tested: S125RDRP-S375D935-X4F0-XX-UDD-WVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061656
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-S375D935-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: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

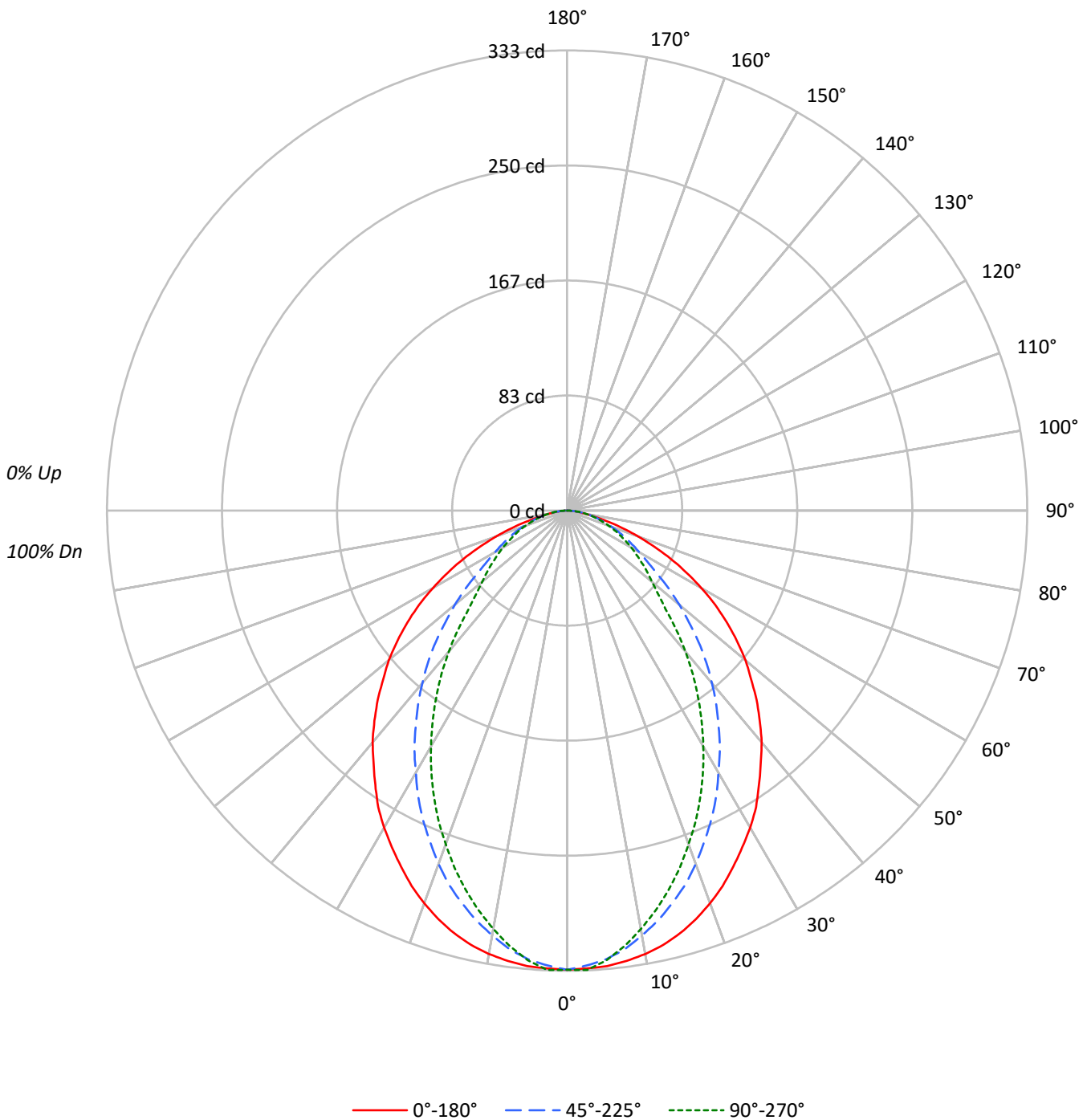
Lumens per Lamp: N/A
Luminaire Lumens: 629.6 lumens
Efficiency: N/A
Efficacy: 50.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.95 / 1.11
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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	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°	2288	2288	2288
5°	2287	2252	2257
10°	2278	2182	2149
15°	2256	2096	2024
20°	2216	1994	1882
25°	2160	1875	1733
30°	2106	1741	1566
35°	2035	1607	1389
40°	1968	1466	1197
45°	1887	1311	981
50°	1805	1136	858
55°	1694	948	792
60°	1545	830	741
65°	1352	758	688
70°	1097	682	640
75°	787	625	596
80°	543	559	559
85°	403	482	513

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1887 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.9	4.9
10°-20°	83.6	13.3
20°-30°	115.5	18.3
30°-40°	123.0	19.5
40°-50°	108.1	17.2
50°-60°	82.0	13.0
60°-70°	53.2	8.5
70°-80°	26.4	4.2
80°-90°	6.9	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°	230.0	36.5
0°-40°	353.0	56.1
0°-60°	543.1	86.3
0°-90°	629.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	629.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	332	332	332	332	332	
5°	331	330	326	327	327	31
15°	316	309	294	287	284	89
25°	284	269	247	234	228	131
35°	242	220	191	174	165	152
45°	194	167	135	110	101	149
55°	141	113	79	68	66	126
65°	83	62	46	43	42	82
75°	30	26	24	23	22	33
85°	5	6	6	6	6	6
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	332.3	332.3	332.3	332.3	332.3
2.5°	331.6	332.3	329.5	332.0	332.7
5°	330.9	330.2	325.8	326.9	326.6
7.5°	328.7	327.3	320.1	319.3	317.9
10°	325.8	322.2	312.1	309.6	307.4
12.5°	321.9	316.1	303.8	298.8	296.3
15°	316.5	309.2	294.1	287.2	284.0
17.5°	310.0	299.9	284.0	274.6	271.0
20°	302.4	290.5	272.1	261.3	256.9
22.5°	294.1	280.0	259.4	247.9	243.2
25°	284.3	268.8	246.8	234.2	228.1
27.5°	274.6	257.3	233.5	219.4	212.9
30°	264.9	245.0	219.0	203.9	197.0
32.5°	254.4	232.4	205.7	189.1	181.1
35°	242.1	219.8	191.2	173.9	165.3
37.5°	230.2	206.4	177.2	157.7	149.4
40°	219.0	193.8	163.1	141.8	133.2
42.5°	206.4	180.4	149.0	126.7	116.9
45°	193.8	166.7	134.6	110.4	100.7
47.5°	180.4	153.7	119.4	95.6	89.1
50°	168.5	140.4	106.1	84.4	80.1
52.5°	154.8	127.4	92.4	75.8	72.9
55°	141.1	113.3	79.0	68.2	66.0
57.5°	127.0	100.7	68.6	61.7	59.5
60°	112.2	87.7	60.3	54.8	53.8
62.5°	97.4	74.3	53.0	49.1	47.6
65°	83.0	61.7	46.5	42.9	42.2
67.5°	68.2	50.2	40.1	37.5	37.2
70°	54.5	40.8	33.9	32.5	31.8
72.5°	41.9	32.5	28.5	27.4	27.1
75°	29.6	26.0	23.5	22.7	22.4
77.5°	19.8	19.8	18.8	18.0	18.4
80°	13.7	14.4	14.1	14.1	14.1
82.5°	9.0	9.7	10.1	10.1	10.1
85°	5.1	5.8	6.1	6.1	6.5
87.5°	1.8	2.2	2.5	2.9	2.9
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	13.43	14.92	13.79	15.24	15.55	9.67	11.16	10.03	11.47	11.79
	3H	14.74	16.08	15.12	16.41	16.77	11.25	12.59	11.63	12.92	13.28
	4H	15.11	16.36	15.51	16.71	17.09	11.86	13.11	12.26	13.46	13.84
	6H	15.29	16.44	15.70	16.81	17.20	12.33	13.49	12.74	13.85	14.24
	8H	15.32	16.42	15.75	16.81	17.21	12.49	13.59	12.92	13.98	14.38
	12H	15.34	16.39	15.77	16.77	17.20	12.60	13.65	13.03	14.04	14.47
4H	2H	13.54	14.79	13.94	15.14	15.52	10.33	11.58	10.73	11.93	12.31
	3H	15.03	16.07	15.44	16.47	16.87	12.11	13.15	12.52	13.55	13.95
	4H	15.51	16.44	15.94	16.85	17.29	12.83	13.76	13.26	14.18	14.62
	6H	15.79	16.60	16.25	17.04	17.50	13.42	14.23	13.88	14.67	15.13
	8H	15.86	16.62	16.32	17.06	17.53	13.63	14.38	14.09	14.83	15.29
	12H	15.90	16.57	16.38	17.05	17.52	13.78	14.46	14.26	14.93	15.41
8H	4H	15.59	16.35	16.05	16.79	17.26	13.14	13.90	13.61	14.34	14.81
	6H	15.95	16.57	16.45	17.07	17.54	13.85	14.47	14.35	14.97	15.44
	8H	16.07	16.63	16.58	17.14	17.63	14.13	14.69	14.64	15.20	15.69
	12H	16.15	16.65	16.66	17.14	17.71	14.36	14.85	14.87	15.35	15.91
12H	4H	15.58	16.26	16.07	16.74	17.21	13.17	13.84	13.65	14.32	14.79
	6H	15.95	16.51	16.47	17.02	17.51	13.90	14.46	14.42	14.97	15.46
	8H	16.11	16.61	16.62	17.10	17.67	14.24	14.73	14.75	15.22	15.79