

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: P1061661

Luminaire Tested: S125RDRP-S375D940-X4F0-XX-UDD-BVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061661
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-84)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-S375D940-X4F0-XX-UDD-BVL-W
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

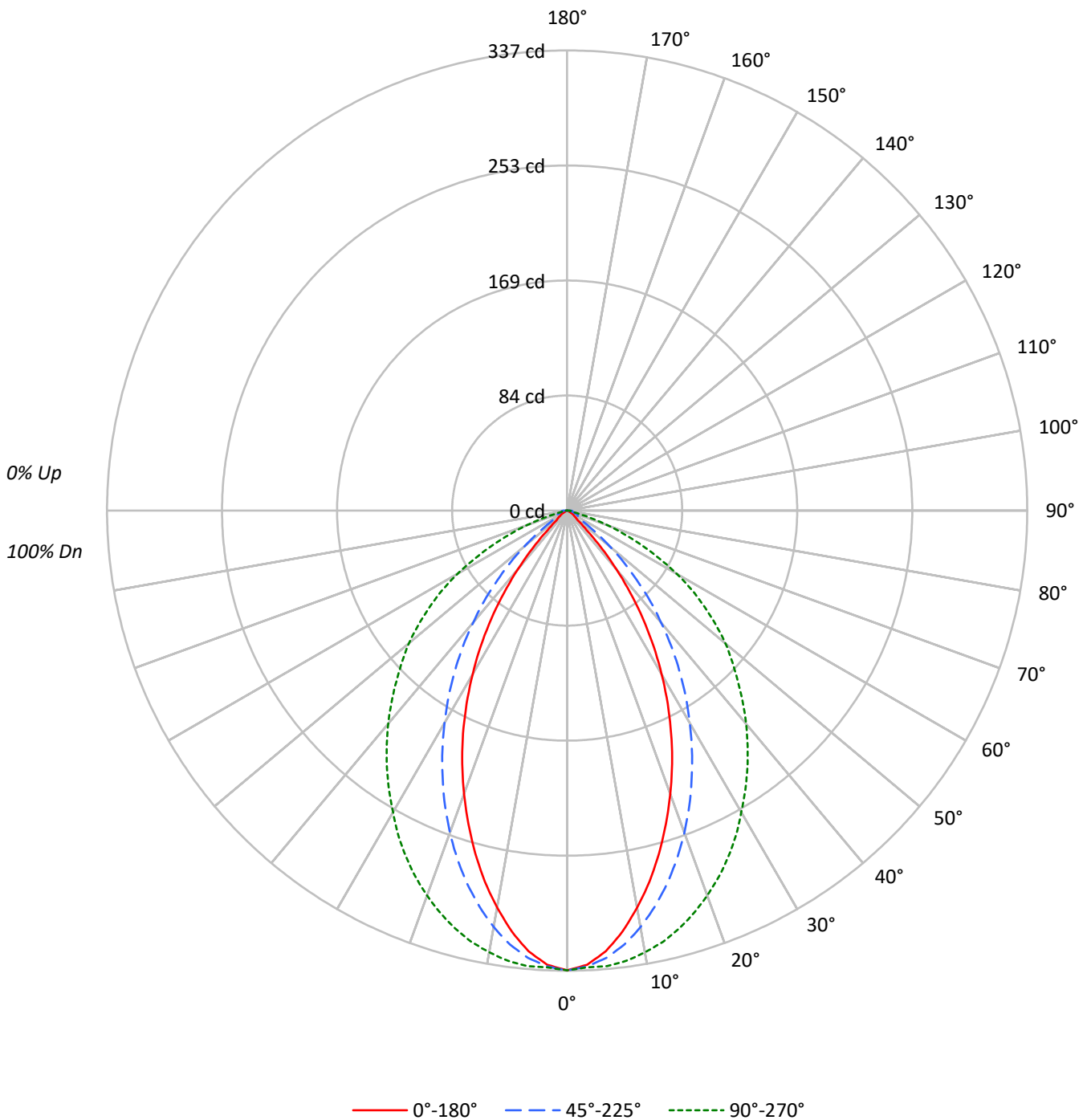
Lumens per Lamp: N/A
Luminaire Lumens: 435.6 lumens
Efficiency: N/A
Efficacy: 34.8 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.14 / 0.98
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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																		
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									100																			
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90									90																			
2	104	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80									80																			
3	98	89	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72									72																			
4	91	82	75	70	89	81	74	69	78	73	68	76	71	67	74	70	67	65									65																			
5	85	75	68	63	83	74	67	62	72	66	62	70	65	61	69	64	60	59									59																			
6	80	69	62	57	78	68	61	56	67	60	56	65	60	56	64	59	55	53									53																			
7	75	64	57	52	74	63	56	51	62	56	51	60	55	51	59	54	50	49									49																			
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	46	45									45																			
9	67	55	48	44	65	55	48	44	54	48	43	53	47	43	52	47	43	41									41																			
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	44	40	38									38																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2318	2318	2318
5°	2239	2273	2314
10°	2064	2166	2297
15°	1853	2016	2259
20°	1617	1839	2198
25°	1370	1640	2123
30°	1100	1428	2028
35°	814	1204	1934
40°	504	962	1833
45°	197	703	1723
50°	92	441	1623
55°	67	188	1473
60°	47	134	1278
65°	31	140	994
70°	30	129	626
75°	40	130	200
80°	59	147	135
85°	87	292	205

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 1723 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.9	7.1
10°-20°	80.0	18.4
20°-30°	101.9	23.4
30°-40°	94.8	21.8
40°-50°	65.3	15.0
50°-60°	37.0	8.5
60°-70°	17.5	4.0
70°-80°	5.5	1.3
80°-90°	2.8	0.7
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°	212.8	48.8
0°-40°	307.6	70.6
0°-60°	409.9	94.1
0°-90°	435.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	435.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	337	337	337	337	337	
5°	324	328	329	332	335	30
15°	260	269	283	304	317	72
25°	180	192	216	252	280	82
35°	97	110	143	192	230	60
45°	20	32	72	131	177	19
55°	6	6	16	75	123	5
65°	2	2	9	27	61	2
75°	2	3	5	5	8	2
85°	1	3	4	3	3	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	336.7	336.7	336.7	336.7	336.7
2.5°	332.9	336.3	334.1	334.4	334.8
5°	324.0	328.5	328.8	331.8	334.8
7.5°	310.9	316.5	320.6	327.7	332.6
10°	295.2	301.9	309.8	321.4	328.5
12.5°	278.3	286.2	297.0	313.5	323.6
15°	260.0	268.6	282.8	304.1	316.9
17.5°	240.5	250.3	267.5	292.9	309.0
20°	220.7	231.2	251.0	280.2	300.0
22.5°	200.9	211.7	233.8	266.4	290.3
25°	180.3	191.9	215.9	252.1	279.5
27.5°	159.4	171.3	197.9	237.6	267.9
30°	138.4	151.1	179.6	222.6	255.1
32.5°	117.8	130.6	161.6	207.6	242.8
35°	96.9	110.4	143.3	192.3	230.1
37.5°	75.9	90.5	125.3	176.6	217.0
40°	56.1	70.0	107.0	161.2	203.9
42.5°	37.4	50.9	90.5	145.9	190.4
45°	20.2	32.2	72.2	130.6	176.9
47.5°	10.8	17.2	56.5	115.6	163.9
50°	8.6	9.7	41.2	101.8	151.5
52.5°	7.1	7.9	26.9	88.7	137.3
55°	5.6	6.4	15.7	75.2	122.7
57.5°	4.5	5.2	10.1	62.5	108.5
60°	3.4	4.1	9.7	50.1	92.8
62.5°	2.6	3.0	9.0	38.5	76.3
65°	1.9	2.2	8.6	26.9	61.0
67.5°	1.5	1.9	7.9	17.2	45.6
70°	1.5	1.5	6.4	11.2	31.1
72.5°	1.5	2.6	5.6	7.5	18.7
75°	1.5	3.4	4.9	5.2	7.5
77.5°	1.5	3.7	4.1	4.1	4.1
80°	1.5	3.4	3.7	3.7	3.4
82.5°	1.5	3.0	3.4	3.7	3.0
85°	1.1	3.0	3.7	3.4	2.6
87.5°	1.1	3.0	3.4	3.0	1.9
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	0.00	0.00	0.00	0.00	0.00	12.17	13.46	12.53	13.77	14.09
	3H	0.00	0.00	0.00	0.00	0.00	12.89	14.03	13.27	14.36	14.72
	4H	0.00	0.00	0.00	0.00	0.00	12.91	13.97	13.31	14.32	14.71
	6H	0.00	0.00	0.00	0.00	0.00	12.86	13.84	13.28	14.21	14.60
	8H	0.00	0.00	0.00	0.00	0.00	12.84	13.76	13.27	14.15	14.56
	12H	0.00	0.00	0.00	0.00	0.00	12.82	13.70	13.25	14.09	14.52
4H	2H	0.00	0.00	0.00	0.00	0.00	11.96	13.02	12.36	13.37	13.76
	3H	0.00	0.00	0.00	0.00	0.00	12.72	13.58	13.13	13.99	14.39
	4H	0.00	0.00	0.00	0.00	0.14	12.74	13.52	13.18	13.94	14.38
	6H	0.00	0.45	0.24	0.89	1.36	12.72	13.39	13.19	13.84	14.30
	8H	0.36	0.99	0.83	1.43	1.91	12.71	13.33	13.18	13.78	14.25
	12H	0.92	1.47	1.41	1.95	2.43	12.71	13.26	13.20	13.75	14.22
8H	4H	0.00	0.54	0.38	0.98	1.45	12.63	13.25	13.10	13.70	14.17
	6H	1.48	1.98	1.98	2.48	2.96	12.62	13.12	13.12	13.62	14.10
	8H	2.27	2.73	2.80	3.25	3.74	12.63	13.08	13.15	13.60	14.09
	12H	3.11	3.51	3.63	4.01	4.58	12.69	13.09	13.20	13.59	14.16
12H	4H	0.13	0.68	0.62	1.16	1.64	12.58	13.13	13.07	13.62	14.09
	6H	1.84	2.30	2.37	2.82	3.31	12.57	13.03	13.09	13.54	14.03
	8H	2.84	3.24	3.36	3.74	4.31	12.62	13.02	13.13	13.51	14.09