

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: P1175417

Luminaire Tested: S125RDRP-H375D940-X4F0-XX-UDD-WVL-W

Issue Date: 8/18/2025

Test Information

Test Method: LM-79-2024
Report Number: P1175417
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-H375D940-X4F0-XX-UDD-WVL-W
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER
HIGH PERFORMANCE LIGHT ENGINE
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

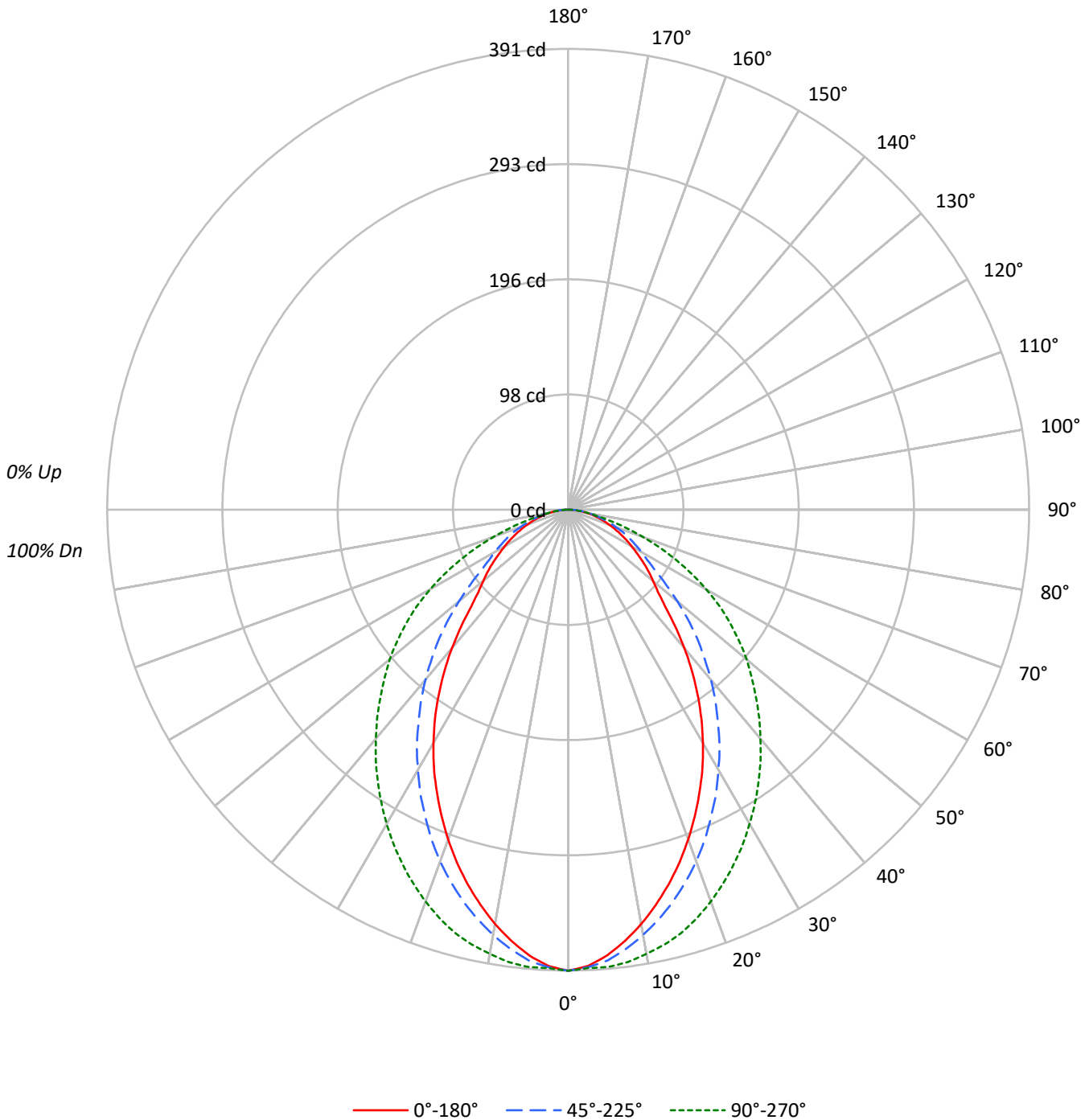
Lumens per Lamp: N/A
Luminaire Lumens: 737.0 lumens
Efficiency: N/A
Efficacy: 63.0 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
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°	2694	2694	2694
5°	2624	2653	2692
10°	2496	2561	2675
15°	2346	2452	2649
20°	2181	2326	2592
25°	2003	2180	2523
30°	1817	2025	2447
35°	1608	1862	2367
40°	1379	1692	2280
45°	1131	1507	2193
50°	1007	1295	2117
55°	929	1084	2009
60°	855	987	1862
65°	795	930	1645
70°	743	870	1343
75°	697	803	1008
80°	658	737	726
85°	600	735	600

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 2193 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.2	4.9
10°-20°	97.6	13.2
20°-30°	134.3	18.2
30°-40°	142.4	19.3
40°-50°	124.7	16.9
50°-60°	95.7	13.0
60°-70°	63.7	8.6
70°-80°	32.7	4.4
80°-90°	9.7	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°	268.1	36.4
0°-40°	410.6	55.7
0°-60°	630.9	85.6
0°-90°	737.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	737.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	391	391	391	391	391	
5°	380	385	384	387	390	36
15°	329	337	344	360	372	92
25°	264	273	287	311	332	121
35°	191	200	222	254	282	119
45°	116	126	155	193	225	92
55°	77	79	90	134	167	69
65°	49	49	57	75	101	49
75°	26	28	30	32	38	28
85°	8	9	9	9	8	9
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	391.2	391.2	391.2	391.2	391.2
2.5°	387.5	391.5	388.5	388.9	389.2
5°	379.6	384.6	383.9	386.6	389.5
7.5°	369.0	374.3	375.9	382.6	387.2
10°	357.0	363.0	366.3	376.3	382.6
12.5°	343.4	350.4	355.7	368.6	377.9
15°	329.1	336.7	344.0	360.3	371.6
17.5°	313.8	321.5	331.1	349.7	363.3
20°	297.6	305.9	317.5	337.4	353.7
22.5°	280.9	289.6	302.9	324.8	343.4
25°	263.7	272.6	286.9	311.2	332.1
27.5°	246.7	255.0	271.6	297.6	320.5
30°	228.5	237.1	254.7	283.3	307.8
32.5°	210.2	218.8	239.1	269.0	294.9
35°	191.3	200.2	221.5	254.0	281.6
37.5°	172.4	181.7	205.2	238.8	268.0
40°	153.4	163.4	188.3	223.5	253.7
42.5°	134.2	144.8	171.0	208.6	239.8
45°	116.2	125.9	154.8	193.3	225.2
47.5°	103.3	108.9	137.5	177.7	211.2
50°	94.0	96.6	120.9	162.7	197.6
52.5°	85.7	87.3	104.6	148.8	182.6
55°	77.4	79.0	90.3	134.2	167.4
57.5°	69.4	70.4	79.7	119.6	152.1
60°	62.1	62.8	71.7	104.9	135.2
62.5°	55.5	55.8	64.1	90.0	118.2
65°	48.8	49.1	57.1	75.1	101.0
67.5°	42.8	42.8	50.5	61.4	84.4
70°	36.9	36.9	43.2	49.8	66.7
72.5°	31.5	32.2	36.5	40.2	52.1
75°	26.2	27.9	30.2	31.9	37.9
77.5°	21.3	23.2	24.2	24.9	25.2
80°	16.6	17.9	18.6	18.9	18.3
82.5°	12.3	13.3	13.6	13.6	12.6
85°	7.6	8.6	9.3	9.0	7.6
87.5°	3.7	5.0	5.3	4.6	3.7
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	10.06	11.56	10.42	11.87	12.18	14.09	15.58	14.45	15.90	16.21
	3H	11.64	12.99	12.02	13.32	13.68	15.47	16.82	15.85	17.14	17.51
	4H	12.29	13.55	12.69	13.90	14.28	15.88	17.14	16.28	17.49	17.87
	6H	12.80	13.96	13.21	14.33	14.72	16.08	17.25	16.50	17.61	18.01
	8H	12.98	14.09	13.40	14.48	14.88	16.14	17.25	16.57	17.64	18.04
	12H	13.10	14.16	13.53	14.55	14.98	16.17	17.23	16.60	17.62	18.05
4H	2H	10.83	12.09	11.23	12.44	12.82	14.21	15.47	14.61	15.82	16.20
	3H	12.61	13.66	13.02	14.06	14.46	15.78	16.83	16.19	17.23	17.63
	4H	13.38	14.32	13.81	14.73	15.17	16.29	17.23	16.73	17.65	18.09
	6H	14.02	14.84	14.47	15.28	15.74	16.62	17.44	17.08	17.88	18.34
	8H	14.25	15.01	14.71	15.46	15.92	16.72	17.48	17.18	17.93	18.40
	12H	14.42	15.10	14.90	15.58	16.05	16.79	17.47	17.27	17.95	18.42
8H	4H	13.76	14.52	14.22	14.97	15.44	16.39	17.16	16.86	17.60	18.07
	6H	14.54	15.17	15.03	15.66	16.14	16.81	17.44	17.31	17.94	18.41
	8H	14.85	15.42	15.37	15.93	16.42	16.97	17.54	17.49	18.05	18.54
	12H	15.11	15.62	15.62	16.11	16.67	17.11	17.61	17.62	18.10	18.67
12H	4H	13.80	14.48	14.28	14.96	15.43	16.39	17.08	16.87	17.55	18.03
	6H	14.61	15.18	15.12	15.69	16.18	16.82	17.39	17.34	17.90	18.39
	8H	15.00	15.50	15.51	15.99	16.55	17.03	17.53	17.54	18.03	18.59