

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: P1175410

Luminaire Tested: S125RDRP-H375D830-X4F0-XX-UDD-WVL-W

Issue Date: 8/18/2025

Test Information

Test Method: LM-79-2024
Report Number: P1175410
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-H375D830-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: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

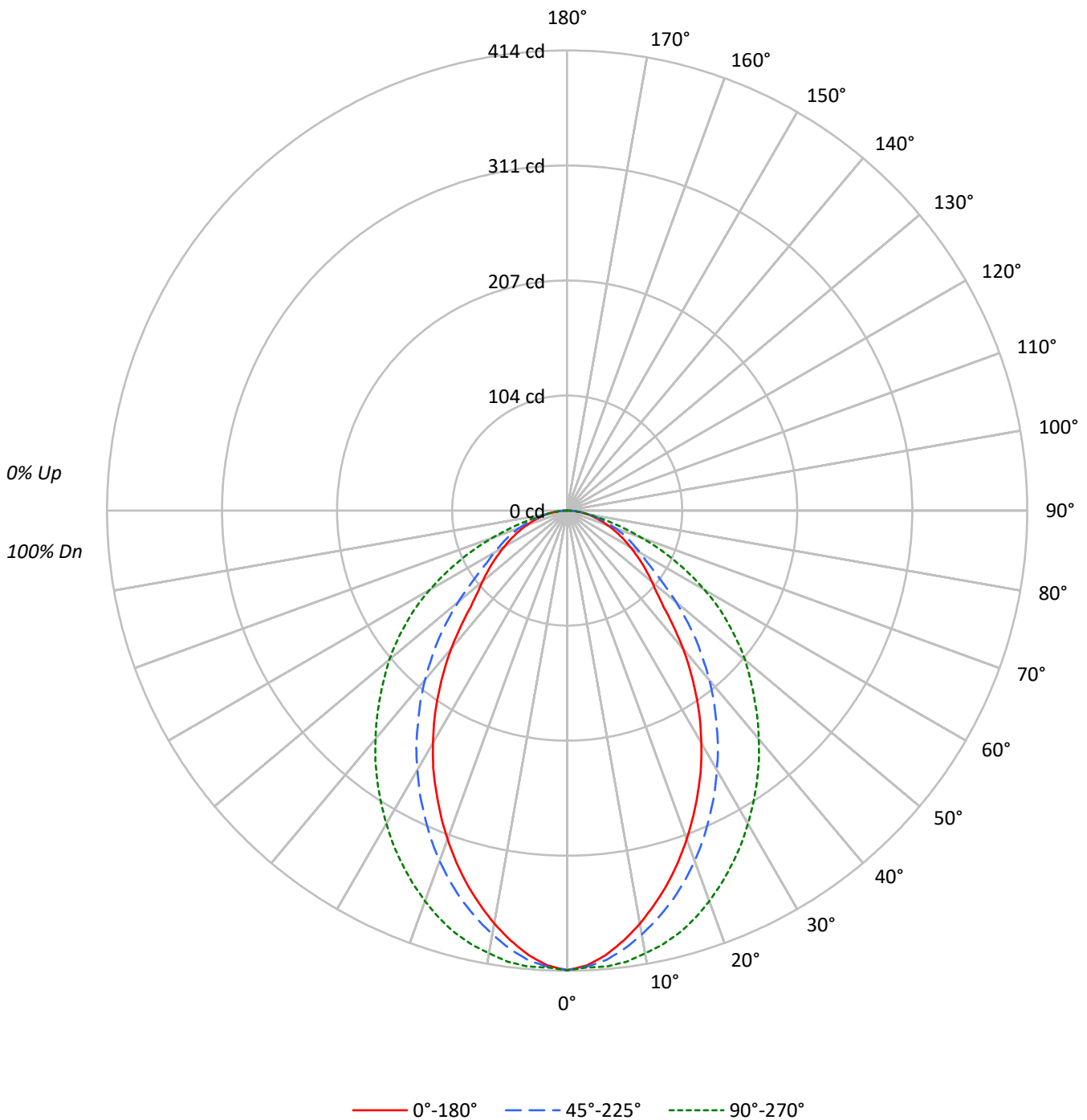
Lumens per Lamp: N/A
Luminaire Lumens: 779.0 lumens
Efficiency: N/A
Efficacy: 66.6 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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°	2847	2847	2847
5°	2773	2805	2845
10°	2638	2707	2827
15°	2480	2592	2800
20°	2304	2459	2739
25°	2117	2304	2667
30°	1920	2140	2587
35°	1700	1968	2502
40°	1458	1789	2411
45°	1197	1593	2317
50°	1064	1369	2238
55°	982	1146	2124
60°	903	1044	1968
65°	841	984	1738
70°	785	918	1421
75°	737	849	1064
80°	698	781	765
85°	640	774	640

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 2317 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.3	4.9
10°-20°	103.2	13.2
20°-30°	141.9	18.2
30°-40°	150.6	19.3
40°-50°	131.8	16.9
50°-60°	101.1	13.0
60°-70°	67.4	8.6
70°-80°	34.5	4.4
80°-90°	10.3	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°	283.4	36.4
0°-40°	434.0	55.7
0°-60°	666.9	85.6
0°-90°	779.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	779.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	414	414	414	414	414	
5°	401	406	406	409	412	38
15°	348	356	364	381	393	97
25°	279	288	303	329	351	128
35°	202	212	234	268	298	126
45°	123	133	164	204	238	97
55°	82	84	96	142	177	73
65°	52	52	60	79	107	51
75°	28	30	32	34	40	29
85°	8	9	10	10	8	9
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	413.5	413.5	413.5	413.5	413.5
2.5°	409.6	413.9	410.7	411.0	411.4
5°	401.2	406.5	405.8	408.6	411.7
7.5°	390.0	395.6	397.4	404.4	409.3
10°	377.3	383.7	387.2	397.7	404.4
12.5°	363.0	370.3	375.9	389.6	399.5
15°	347.9	355.9	363.7	380.9	392.8
17.5°	331.7	339.8	350.0	369.6	384.0
20°	314.5	323.3	335.6	356.6	373.8
22.5°	297.0	306.1	320.1	343.3	363.0
25°	278.7	288.2	303.3	328.9	351.0
27.5°	260.8	269.6	287.1	314.5	338.7
30°	241.5	250.6	269.2	299.4	325.4
32.5°	222.2	231.3	252.7	284.3	311.7
35°	202.2	211.7	234.1	268.5	297.7
37.5°	182.2	192.0	216.9	252.4	283.3
40°	162.2	172.7	199.0	236.2	268.2
42.5°	141.8	153.0	180.8	220.4	253.4
45°	122.9	133.0	163.6	204.3	238.0
47.5°	109.2	115.1	145.3	187.8	223.2
50°	99.3	102.1	127.8	172.0	208.9
52.5°	90.6	92.3	110.6	157.3	193.1
55°	81.8	83.5	95.5	141.8	176.9
57.5°	73.4	74.4	84.2	126.4	160.8
60°	65.6	66.3	75.8	110.9	142.9
62.5°	58.6	59.0	67.7	95.1	125.0
65°	51.6	52.0	60.4	79.3	106.7
67.5°	45.3	45.3	53.4	64.9	89.2
70°	39.0	39.0	45.6	52.7	70.6
72.5°	33.3	34.0	38.6	42.5	55.1
75°	27.7	29.5	31.9	33.7	40.0
77.5°	22.5	24.6	25.6	26.3	26.7
80°	17.6	19.0	19.7	20.0	19.3
82.5°	13.0	14.0	14.4	14.4	13.3
85°	8.1	9.1	9.8	9.5	8.1
87.5°	3.9	5.3	5.6	4.9	3.9
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	10.25	11.75	10.61	12.06	12.38	14.28	15.78	14.64	16.09	16.40
	3H	11.84	13.18	12.22	13.51	13.87	15.66	17.01	16.04	17.34	17.70
	4H	12.48	13.74	12.88	14.09	14.47	16.07	17.33	16.47	17.68	18.06
	6H	12.99	14.16	13.40	14.52	14.92	16.28	17.44	16.69	17.81	18.20
	8H	13.17	14.28	13.60	14.67	15.07	16.33	17.44	16.76	17.83	18.23
	12H	13.30	14.36	13.73	14.74	15.17	16.37	17.43	16.80	17.81	18.24
4H	2H	11.02	12.28	11.42	12.63	13.01	14.41	15.67	14.81	16.02	16.40
	3H	12.80	13.85	13.21	14.25	14.65	15.98	17.02	16.39	17.42	17.82
	4H	13.57	14.51	14.00	14.93	15.37	16.49	17.43	16.92	17.84	18.28
	6H	14.21	15.03	14.67	15.47	15.93	16.81	17.63	17.27	18.07	18.53
	8H	14.44	15.21	14.91	15.65	16.12	16.91	17.68	17.38	18.12	18.59
	12H	14.61	15.30	15.10	15.78	16.25	16.98	17.67	17.47	18.15	18.62
8H	4H	13.95	14.72	14.42	15.16	15.63	16.59	17.35	17.05	17.80	18.26
	6H	14.73	15.37	15.23	15.86	16.34	17.00	17.64	17.50	18.13	18.61
	8H	15.05	15.62	15.56	16.13	16.62	17.16	17.73	17.68	18.24	18.73
	12H	15.31	15.81	15.82	16.30	16.87	17.30	17.80	17.81	18.30	18.86
12H	4H	13.99	14.68	14.48	15.16	15.63	16.58	17.27	17.07	17.75	18.22
	6H	14.81	15.38	15.32	15.89	16.38	17.02	17.59	17.53	18.10	18.58
	8H	15.19	15.69	15.70	16.19	16.75	17.23	17.73	17.74	18.22	18.79