

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: P1175401

Luminaire Tested: S125RDRP-H1270D830-X4F0-XX-UDD-WVL-W

Issue Date: 8/18/2025

Test Information

Test Method: LM-79-2024
Report Number: P1175401
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-H1270D830-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

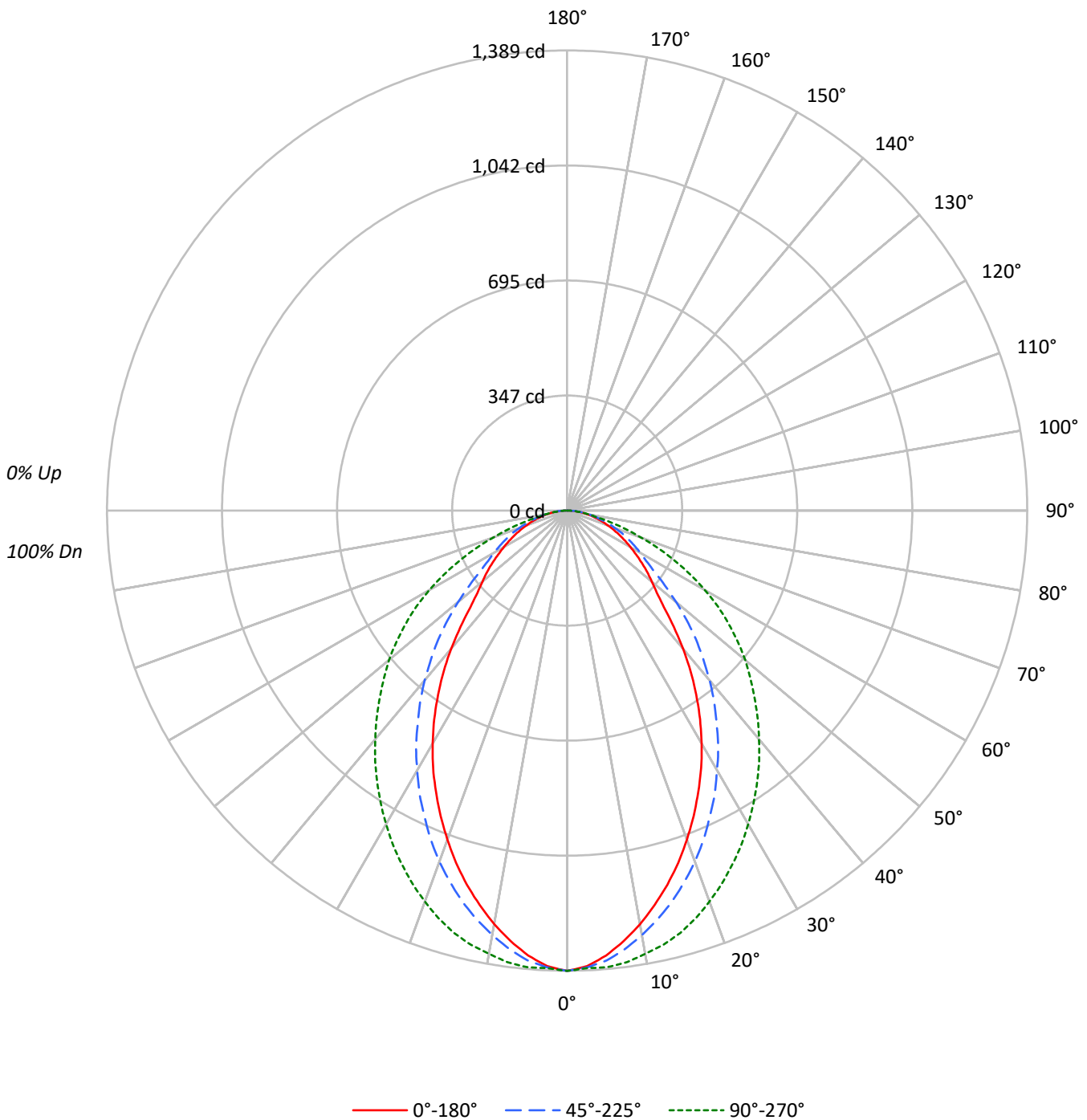
Lumens per Lamp: N/A
Luminaire Lumens: 2617.5 lumens
Efficiency: N/A
Efficacy: 71.7 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 36.5
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	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°	9566	9566	9566
5°	9317	9423	9562
10°	8864	9095	9499
15°	8331	8710	9408
20°	7743	8261	9204
25°	7115	7741	8960
30°	6451	7192	8692
35°	5710	6612	8407
40°	4898	6010	8099
45°	4020	5352	7787
50°	3576	4598	7517
55°	3299	3851	7135
60°	3038	3509	6610
65°	2825	3306	5841
70°	2635	3086	4773
75°	2479	2854	3578
80°	2339	2617	2573
85°	2141	2607	2141

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 7787 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.6	4.9
10°-20°	346.7	13.2
20°-30°	477.0	18.2
30°-40°	505.9	19.3
40°-50°	442.8	16.9
50°-60°	339.8	13.0
60°-70°	226.3	8.6
70°-80°	116.0	4.4
80°-90°	34.4	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°	952.3	36.4
0°-40°	1458.2	55.7
0°-60°	2240.7	85.6
0°-90°	2617.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2617.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1389	1389	1389	1389	1389	
5°	1348	1366	1363	1373	1384	126
15°	1169	1196	1222	1280	1320	328
25°	936	968	1019	1105	1179	430
35°	679	711	787	902	1000	423
45°	413	447	550	686	800	326
55°	275	281	321	476	594	246
65°	173	175	203	267	358	173
75°	93	99	107	113	134	99
85°	27	31	33	32	27	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1389.4	1389.4	1389.4	1389.4	1389.4
2.5°	1376.4	1390.5	1379.9	1381.1	1382.3
5°	1348.1	1365.8	1363.4	1372.9	1383.5
7.5°	1310.3	1329.2	1335.1	1358.7	1375.2
10°	1267.9	1289.1	1300.9	1336.3	1358.7
12.5°	1219.5	1244.3	1263.2	1309.2	1342.2
15°	1168.8	1195.9	1221.9	1279.7	1319.8
17.5°	1114.6	1141.7	1175.9	1241.9	1290.3
20°	1056.8	1086.3	1127.5	1198.3	1256.1
22.5°	997.8	1028.5	1075.6	1153.5	1219.5
25°	936.5	968.3	1019.0	1105.1	1179.4
27.5°	876.3	905.8	964.8	1056.8	1138.1
30°	811.4	842.1	904.6	1006.0	1093.3
32.5°	746.6	777.2	849.2	955.3	1047.3
35°	679.3	711.2	786.7	902.3	1000.2
37.5°	612.1	645.1	728.9	848.0	951.8
40°	544.9	580.3	668.7	793.8	901.1
42.5°	476.5	514.2	607.4	740.7	851.5
45°	412.8	447.0	549.6	686.4	799.7
47.5°	366.8	386.9	488.3	631.0	750.1
50°	333.8	343.2	429.3	577.9	701.8
52.5°	304.3	310.2	371.5	528.4	648.7
55°	274.8	280.7	320.8	476.5	594.4
57.5°	246.5	250.0	283.1	424.6	540.2
60°	220.6	222.9	254.8	372.7	480.0
62.5°	197.0	198.1	227.6	319.6	419.9
65°	173.4	174.6	202.9	266.6	358.5
67.5°	152.1	152.1	179.3	218.2	299.6
70°	130.9	130.9	153.3	176.9	237.1
72.5°	112.0	114.4	129.7	142.7	185.2
75°	93.2	99.1	107.3	113.2	134.5
77.5°	75.5	82.6	86.1	88.5	89.6
80°	59.0	63.7	66.0	67.2	64.9
82.5°	43.6	47.2	48.4	48.4	44.8
85°	27.1	30.7	33.0	31.8	27.1
87.5°	13.0	17.7	18.9	16.5	13.0
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	14.46	15.96	14.83	16.27	16.59	18.49	19.99	18.85	20.30	20.61
	3H	16.05	17.39	16.43	17.72	18.08	19.87	21.22	20.25	21.55	21.91
	4H	16.69	17.95	17.09	18.30	18.68	20.28	21.54	20.68	21.89	22.27
	6H	17.20	18.36	17.61	18.73	19.12	20.49	21.65	20.90	22.02	22.41
	8H	17.38	18.49	17.81	18.88	19.28	20.54	21.65	20.97	22.04	22.44
	12H	17.51	18.57	17.94	18.95	19.38	20.58	21.64	21.01	22.02	22.45
4H	2H	15.23	16.49	15.63	16.84	17.22	18.62	19.88	19.02	20.23	20.60
	3H	17.01	18.06	17.42	18.46	18.86	20.19	21.23	20.60	21.63	22.03
	4H	17.78	18.72	18.21	19.14	19.58	20.70	21.64	21.13	22.05	22.49
	6H	18.42	19.24	18.88	19.68	20.14	21.02	21.84	21.48	22.28	22.74
	8H	18.65	19.42	19.11	19.86	20.33	21.12	21.89	21.59	22.33	22.80
	12H	18.82	19.51	19.30	19.98	20.46	21.19	21.88	21.68	22.36	22.83
8H	4H	18.16	18.93	18.63	19.37	19.84	20.80	21.56	21.26	22.01	22.47
	6H	18.94	19.57	19.44	20.07	20.54	21.21	21.85	21.71	22.34	22.82
	8H	19.26	19.83	19.77	20.34	20.82	21.37	21.94	21.89	22.45	22.94
	12H	19.52	20.02	20.03	20.51	21.08	21.51	22.01	22.02	22.51	23.07
12H	4H	18.20	18.89	18.69	19.37	19.84	20.79	21.48	21.28	21.96	22.43
	6H	19.02	19.58	19.53	20.09	20.58	21.23	21.80	21.74	22.31	22.79
	8H	19.40	19.90	19.91	20.39	20.96	21.44	21.94	21.95	22.43	23.00