

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: P1061521

Luminaire Tested: S125RDRP-S1270D830-X4F0-XX-UDD-WVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061521
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-S1270D830-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: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

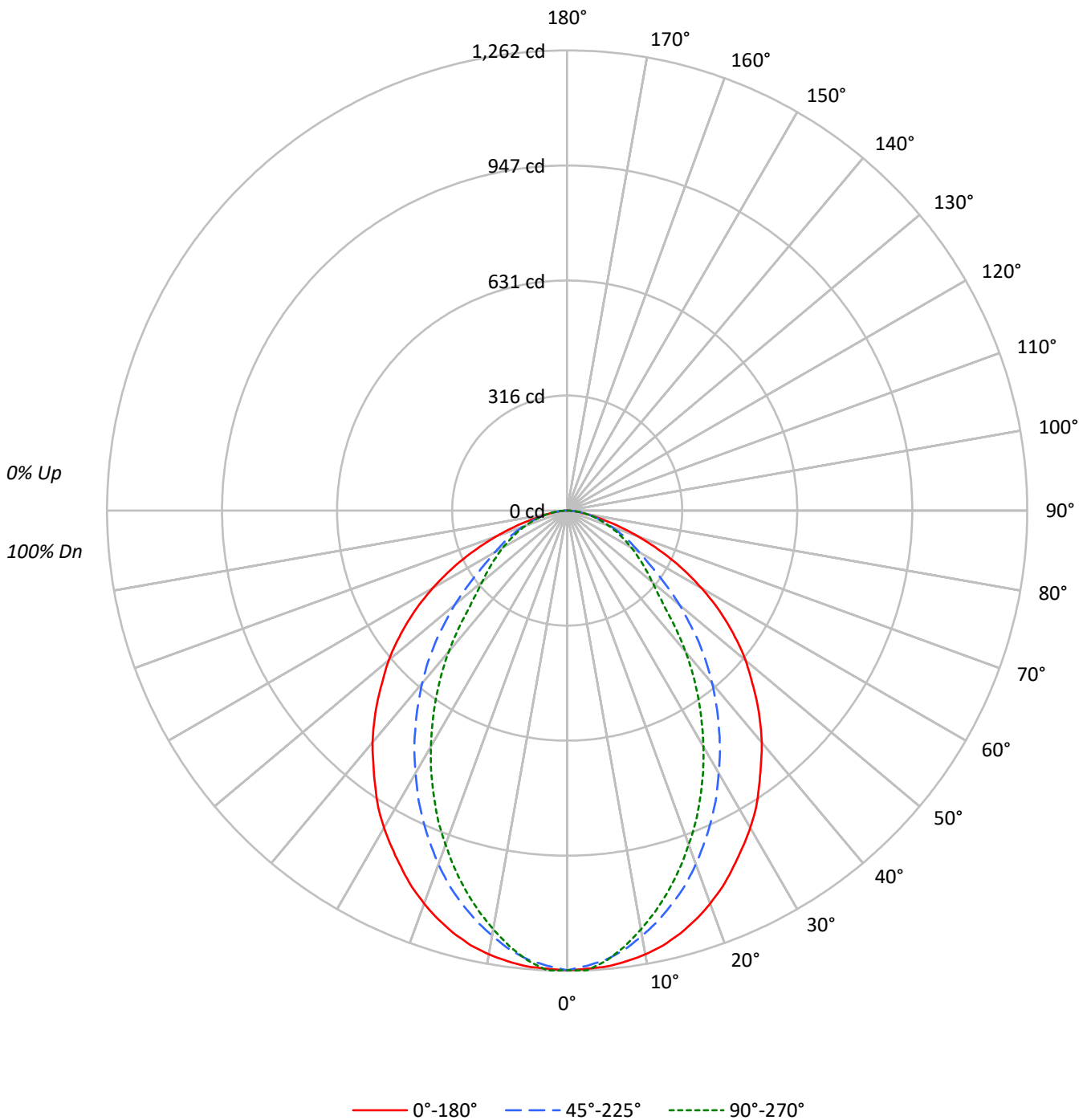
Lumens per Lamp: N/A
Luminaire Lumens: 2388.1 lumens
Efficiency: N/A
Efficacy: 57.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.95 / 1.11
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.8
Input Voltage (V): 120
Input Current (Ain): 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	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	75	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°	8680	8680	8680
5°	8675	8543	8561
10°	8641	8277	8153
15°	8557	7951	7678
20°	8404	7562	7140
25°	8194	7112	6571
30°	7987	6605	5941
35°	7719	6097	5269
40°	7467	5561	4540
45°	7157	4971	3719
50°	6847	4310	3255
55°	6425	3599	3007
60°	5862	3148	2808
65°	5129	2877	2608
70°	4161	2591	2424
75°	2985	2368	2259
80°	2062	2117	2117
85°	1517	1841	1943

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7157 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.2	4.9
10°-20°	317.0	13.3
20°-30°	438.2	18.3
30°-40°	466.7	19.5
40°-50°	410.0	17.2
50°-60°	310.9	13.0
60°-70°	201.9	8.5
70°-80°	100.0	4.2
80°-90°	26.2	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°	872.4	36.5
0°-40°	1339.1	56.1
0°-60°	2060.0	86.3
0°-90°	2388.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2388.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1261	1261	1261	1261	1261	
5°	1255	1252	1236	1240	1239	119
15°	1200	1173	1116	1090	1077	338
25°	1079	1020	936	888	865	497
35°	918	834	725	660	627	575
45°	735	632	510	419	382	567
55°	535	430	300	259	250	477
65°	315	234	177	163	160	311
75°	112	98	89	86	85	125
85°	19	22	23	23	25	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1260.6	1260.6	1260.6	1260.6	1260.6
2.5°	1257.9	1260.6	1249.6	1259.2	1262.0
5°	1255.1	1252.4	1236.0	1240.1	1238.7
7.5°	1246.9	1241.4	1214.1	1211.3	1205.8
10°	1236.0	1222.3	1183.9	1174.4	1166.2
12.5°	1220.9	1199.0	1152.5	1133.3	1123.7
15°	1200.4	1173.0	1115.5	1089.5	1077.2
17.5°	1175.7	1137.4	1077.2	1041.6	1027.9
20°	1147.0	1101.8	1032.0	991.0	974.5
22.5°	1115.5	1062.1	984.1	940.3	922.5
25°	1078.6	1019.7	936.2	888.3	865.0
27.5°	1041.6	975.9	885.6	832.2	807.5
30°	1004.6	929.4	830.8	773.3	747.3
32.5°	965.0	881.5	780.2	717.2	687.1
35°	918.4	833.6	725.4	659.7	626.9
37.5°	873.2	782.9	672.0	598.1	566.7
40°	830.8	735.0	618.7	537.9	505.1
42.5°	782.9	684.4	565.3	480.4	443.5
45°	735.0	632.4	510.5	418.8	381.9
47.5°	684.4	583.1	453.0	362.7	338.1
50°	639.2	532.4	402.4	320.3	303.9
52.5°	587.2	483.2	350.4	287.4	276.5
55°	535.2	429.8	299.8	258.7	250.5
57.5°	481.8	381.9	260.1	234.1	225.8
60°	425.7	332.6	228.6	208.0	203.9
62.5°	369.6	282.0	201.2	186.1	180.7
65°	314.8	234.1	176.6	162.9	160.1
67.5°	258.7	190.3	151.9	142.3	141.0
70°	206.7	154.7	128.7	123.2	120.4
72.5°	158.8	123.2	108.1	104.0	102.7
75°	112.2	98.5	89.0	86.2	84.9
77.5°	75.3	75.3	71.2	68.4	69.8
80°	52.0	54.7	53.4	53.4	53.4
82.5°	34.2	37.0	38.3	38.3	38.3
85°	19.2	21.9	23.3	23.3	24.6
87.5°	6.8	8.2	9.6	10.9	10.9
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	18.06	19.55	18.43	19.87	20.18	14.30	15.80	14.67	16.11	16.42
	3H	19.37	20.71	19.75	21.04	21.40	15.89	17.22	16.26	17.55	17.91
	4H	19.74	21.00	20.14	21.34	21.72	16.49	17.74	16.89	18.09	18.47
	6H	19.92	21.07	20.33	21.44	21.83	16.96	18.12	17.37	18.48	18.88
	8H	19.95	21.06	20.38	21.44	21.85	17.12	18.22	17.55	18.61	19.01
	12H	19.97	21.02	20.40	21.40	21.83	17.23	18.28	17.66	18.67	19.10
4H	2H	18.17	19.43	18.57	19.78	20.15	14.96	16.22	15.37	16.57	16.95
	3H	19.66	20.70	20.07	21.10	21.50	16.75	17.78	17.16	18.18	18.59
	4H	20.14	21.07	20.57	21.49	21.92	17.46	18.40	17.90	18.81	19.25
	6H	20.42	21.23	20.88	21.68	22.14	18.05	18.86	18.51	19.31	19.77
	8H	20.49	21.25	20.95	21.69	22.16	18.26	19.02	18.72	19.46	19.93
	12H	20.53	21.21	21.01	21.69	22.16	18.41	19.09	18.89	19.57	20.04
8H	4H	20.22	20.98	20.68	21.42	21.89	17.77	18.53	18.24	18.98	19.44
	6H	20.58	21.21	21.08	21.70	22.18	18.48	19.11	18.98	19.60	20.08
	8H	20.70	21.26	21.21	21.77	22.26	18.76	19.32	19.28	19.83	20.32
	12H	20.79	21.28	21.30	21.77	22.34	18.99	19.49	19.50	19.98	20.54
12H	4H	20.21	20.89	20.70	21.37	21.84	17.80	18.48	18.28	18.96	19.43
	6H	20.59	21.15	21.10	21.66	22.15	18.53	19.09	19.05	19.60	20.09
	8H	20.74	21.24	21.26	21.73	22.30	18.87	19.36	19.38	19.86	20.42