

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: P1061611

Luminaire Tested: S125RDRP-S375D835-X4F0-XX-UDD-WVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061611
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-S375D835-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: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

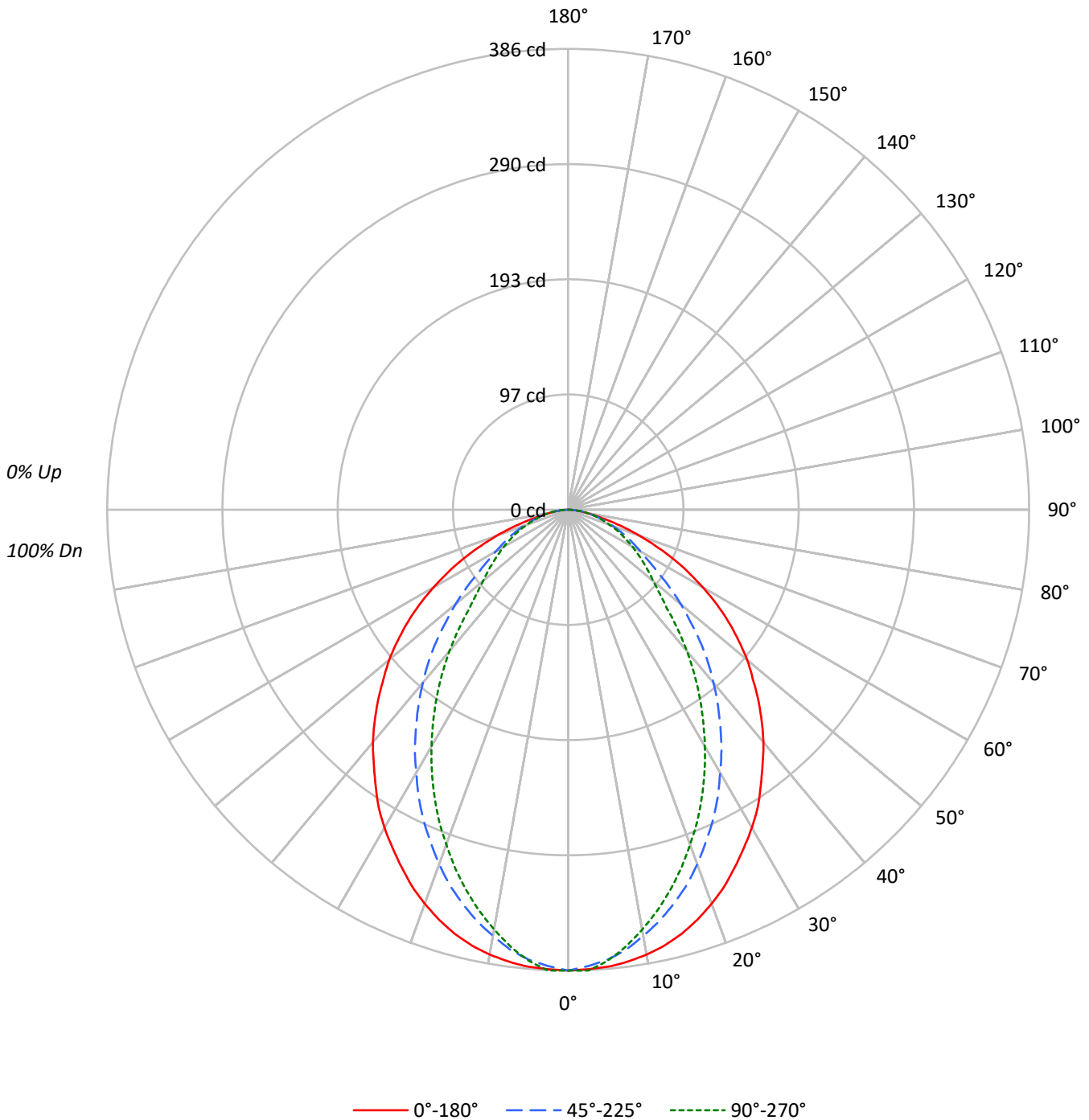
Lumens per Lamp: N/A
Luminaire Lumens: 731.2 lumens
Efficiency: N/A
Efficacy: 58.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.95 / 1.11
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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									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	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	76	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°	2658	2658	2658
5°	2656	2615	2622
10°	2646	2534	2497
15°	2620	2435	2351
20°	2573	2315	2186
25°	2509	2178	2012
30°	2446	2023	1819
35°	2364	1867	1613
40°	2287	1702	1390
45°	2192	1522	1138
50°	2096	1320	996
55°	1967	1102	921
60°	1794	964	859
65°	1571	881	798
70°	1274	793	743
75°	915	724	692
80°	630	646	646
85°	466	561	592

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2192 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.9	4.9
10°-20°	97.1	13.3
20°-30°	134.2	18.3
30°-40°	142.9	19.5
40°-50°	125.5	17.2
50°-60°	95.2	13.0
60°-70°	61.8	8.5
70°-80°	30.6	4.2
80°-90°	8.0	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°	267.1	36.5
0°-40°	410.0	56.1
0°-60°	630.8	86.3
0°-90°	731.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	731.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	386	386	386	386	386	
5°	384	384	378	380	379	36
15°	368	359	342	334	330	104
25°	330	312	287	272	265	152
35°	281	255	222	202	192	176
45°	225	194	156	128	117	174
55°	164	132	92	79	77	146
65°	96	72	54	50	49	95
75°	34	30	27	26	26	38
85°	6	7	7	7	8	7
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	386.0	386.0	386.0	386.0	386.0
2.5°	385.2	386.0	382.6	385.6	386.4
5°	384.3	383.5	378.4	379.7	379.3
7.5°	381.8	380.1	371.7	370.9	369.2
10°	378.4	374.3	362.5	359.6	357.1
12.5°	373.8	367.1	352.9	347.0	344.1
15°	367.6	359.2	341.6	333.6	329.8
17.5°	360.0	348.3	329.8	318.9	314.7
20°	351.2	337.4	316.0	303.4	298.4
22.5°	341.6	325.2	301.3	287.9	282.5
25°	330.3	312.2	286.7	272.0	264.9
27.5°	318.9	298.8	271.2	254.8	247.3
30°	307.6	284.6	254.4	236.8	228.8
32.5°	295.5	269.9	238.9	219.6	210.4
35°	281.2	255.2	222.1	202.0	191.9
37.5°	267.4	239.7	205.8	183.1	173.5
40°	254.4	225.1	189.4	164.7	154.6
42.5°	239.7	209.6	173.1	147.1	135.8
45°	225.1	193.6	156.3	128.2	116.9
47.5°	209.6	178.5	138.7	111.1	103.5
50°	195.7	163.0	123.2	98.1	93.0
52.5°	179.8	147.9	107.3	88.0	84.7
55°	163.9	131.6	91.8	79.2	76.7
57.5°	147.5	116.9	79.6	71.7	69.2
60°	130.3	101.8	70.0	63.7	62.4
62.5°	113.2	86.3	61.6	57.0	55.3
65°	96.4	71.7	54.1	49.9	49.0
67.5°	79.2	58.3	46.5	43.6	43.2
70°	63.3	47.4	39.4	37.7	36.9
72.5°	48.6	37.7	33.1	31.9	31.4
75°	34.4	30.2	27.2	26.4	26.0
77.5°	23.1	23.1	21.8	21.0	21.4
80°	15.9	16.8	16.3	16.3	16.3
82.5°	10.5	11.3	11.7	11.7	11.7
85°	5.9	6.7	7.1	7.1	7.5
87.5°	2.1	2.5	2.9	3.4	3.4
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	13.95	15.44	14.31	15.75	16.07	10.19	11.69	10.56	12.00	12.31
	3H	15.26	16.60	15.64	16.92	17.29	11.78	13.11	12.15	13.44	13.80
	4H	15.63	16.88	16.03	17.23	17.61	12.38	13.63	12.78	13.98	14.36
	6H	15.81	16.96	16.22	17.33	17.72	12.85	14.01	13.26	14.37	14.77
	8H	15.84	16.94	16.27	17.33	17.74	13.01	14.11	13.44	14.50	14.90
	12H	15.86	16.91	16.29	17.29	17.72	13.12	14.17	13.55	14.55	14.98
4H	2H	14.06	15.31	14.46	15.66	16.04	10.86	12.11	11.26	12.46	12.84
	3H	15.55	16.59	15.96	16.99	17.39	12.64	13.67	13.05	14.07	14.48
	4H	16.02	16.96	16.46	17.37	17.81	13.35	14.29	13.79	14.70	15.14
	6H	16.31	17.12	16.77	17.56	18.03	13.94	14.75	14.40	15.20	15.66
	8H	16.38	17.14	16.84	17.58	18.05	14.15	14.90	14.61	15.35	15.82
	12H	16.42	17.10	16.90	17.58	18.05	14.30	14.97	14.78	15.45	15.93
8H	4H	16.11	16.86	16.57	17.31	17.78	13.66	14.42	14.13	14.87	15.33
	6H	16.47	17.10	16.97	17.59	18.07	14.37	14.99	14.87	15.49	15.96
	8H	16.59	17.15	17.10	17.66	18.15	14.65	15.21	15.16	15.72	16.21
	12H	16.67	17.17	17.19	17.66	18.23	14.88	15.37	15.39	15.86	16.43
12H	4H	16.10	16.78	16.58	17.26	17.73	13.69	14.37	14.17	14.85	15.32
	6H	16.47	17.04	16.99	17.55	18.03	14.42	14.98	14.94	15.49	15.98
	8H	16.63	17.13	17.14	17.62	18.19	14.76	15.25	15.27	15.74	16.31