

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1061967

Luminaire Tested: S125RDR-H1270D930-X4F0-XX-UDD-BVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061967
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-84)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-H1270D930-X4F0-XX-UDD-BVL-W
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE
LOUVER WITH DIFFUSER
HIGH PERFORMANCE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

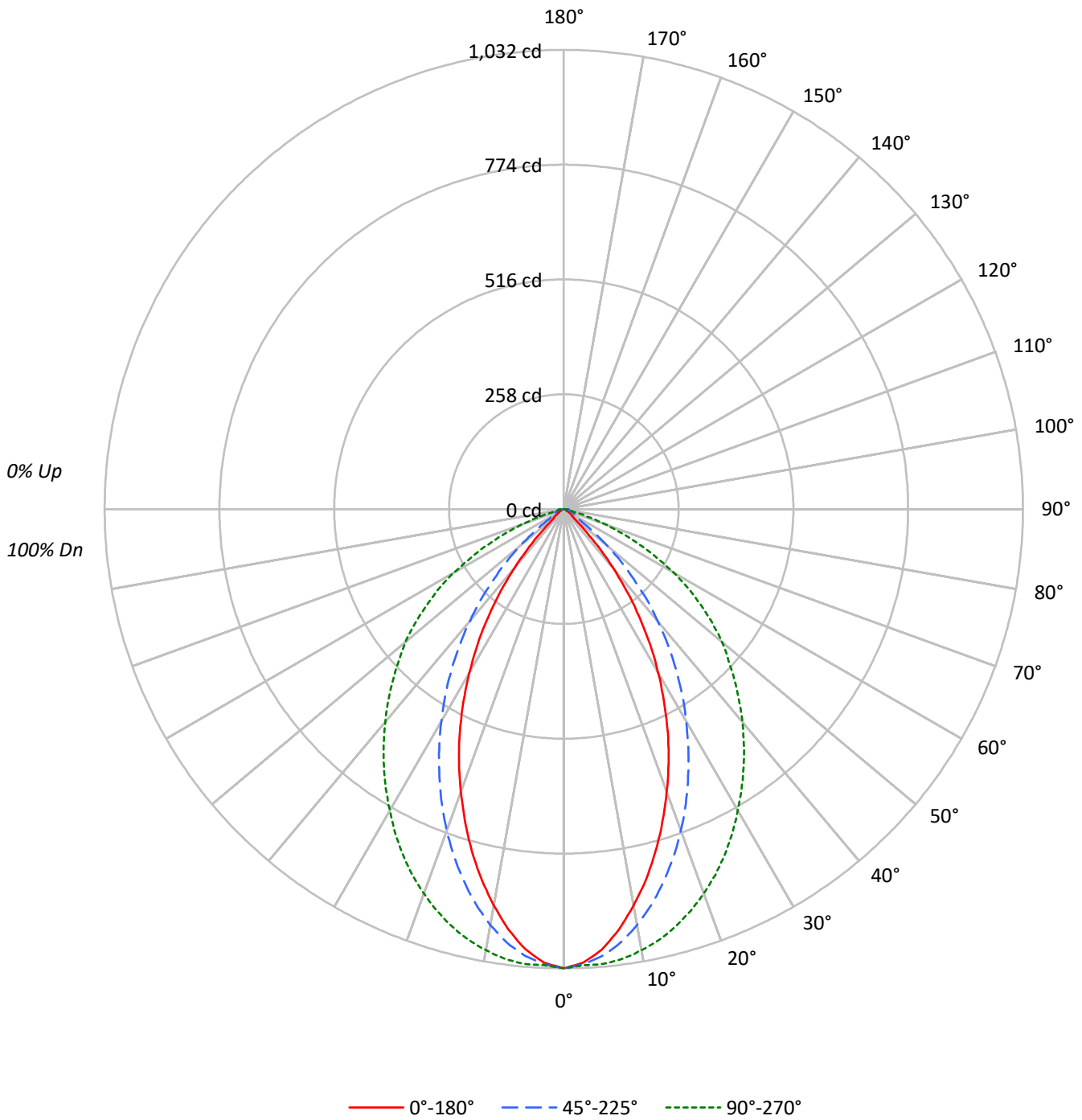
Lumens per Lamp: N/A
Luminaire Lumens: 1335.0 lumens
Efficiency: N/A
Efficacy: 36.6 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.14 / 0.98
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 36.5
Input Voltage (V): 120
Input Current (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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100	
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90			90	
2	104	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80			80	
3	98	89	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72			72	
4	91	82	75	70	89	81	74	69	78	73	68	76	71	67	74	70	67	65			65	
5	85	75	68	63	83	74	67	62	72	66	62	70	65	61	69	64	60	59			59	
6	80	69	62	57	78	68	61	56	67	60	56	65	60	56	64	59	55	53			53	
7	75	64	57	52	74	63	56	51	62	56	51	60	55	51	59	54	50	49			49	
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	46	45			45	
9	67	55	48	44	65	55	48	44	54	48	43	53	47	43	52	47	43	41			41	
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	44	40	38			38	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7104	7104	7104
5°	6862	6965	7092
10°	6324	6637	7038
15°	5680	6178	6921
20°	4956	5637	6737
25°	4198	5025	6506
30°	3373	4375	6216
35°	2496	3691	5927
40°	1546	2947	5616
45°	603	2155	5280
50°	283	1351	4973
55°	206	579	4514
60°	142	410	3915
65°	93	430	3045
70°	93	393	1916
75°	122	396	609
80°	182	456	408
85°	269	908	632

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5280 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.6	7.1
10°-20°	245.2	18.4
20°-30°	312.3	23.4
30°-40°	290.6	21.8
40°-50°	200.0	15.0
50°-60°	113.3	8.5
60°-70°	53.5	4.0
70°-80°	16.7	1.3
80°-90°	8.7	0.7
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°	652.0	48.8
0°-40°	942.7	70.6
0°-60°	1256.0	94.1
0°-90°	1335.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1335.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1032	1032	1032	1032	1032	
5°	993	1007	1008	1017	1026	92
15°	797	823	867	932	971	222
25°	553	588	662	773	856	252
35°	297	338	439	589	705	184
45°	62	99	221	400	542	58
55°	17	20	48	230	376	16
65°	6	7	26	82	187	6
75°	5	10	15	16	23	5
85°	3	9	12	10	8	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1031.8	1031.8	1031.8	1031.8	1031.8
2.5°	1020.3	1030.7	1023.8	1024.9	1026.1
5°	992.8	1006.6	1007.7	1016.9	1026.1
7.5°	952.7	969.9	982.5	1004.3	1019.2
10°	904.5	925.2	949.3	984.8	1006.6
12.5°	853.0	877.0	910.3	960.7	991.7
15°	796.8	823.1	866.7	932.1	971.0
17.5°	737.2	767.0	819.7	897.7	947.0
20°	676.4	708.5	769.3	858.7	919.4
22.5°	615.6	648.9	716.5	816.3	889.6
25°	552.6	588.1	661.5	772.7	856.4
27.5°	488.4	525.1	606.5	728.0	820.9
30°	424.2	463.2	550.3	682.1	781.9
32.5°	361.1	400.1	495.3	636.3	744.0
35°	296.9	338.2	439.1	589.3	705.1
37.5°	232.7	277.4	384.1	541.1	664.9
40°	172.0	214.4	327.9	494.1	624.8
42.5°	114.6	155.9	277.4	447.1	583.5
45°	61.9	98.6	221.3	400.1	542.3
47.5°	33.2	52.7	173.1	354.3	502.1
50°	26.4	29.8	126.1	311.8	464.3
52.5°	21.8	24.1	82.5	271.7	420.7
55°	17.2	19.5	48.2	230.4	376.0
57.5°	13.8	16.1	31.0	191.5	332.5
60°	10.3	12.6	29.8	153.6	284.3
62.5°	8.0	9.2	27.5	118.1	233.9
65°	5.7	6.9	26.4	82.5	186.9
67.5°	4.6	5.7	24.1	52.7	139.9
70°	4.6	4.6	19.5	34.4	95.2
72.5°	4.6	8.0	17.2	22.9	57.3
75°	4.6	10.3	14.9	16.1	22.9
77.5°	4.6	11.5	12.6	12.6	12.6
80°	4.6	10.3	11.5	11.5	10.3
82.5°	4.6	9.2	10.3	11.5	9.2
85°	3.4	9.2	11.5	10.3	8.0
87.5°	3.4	9.2	10.3	9.2	5.7
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	0.00	0.00	0.00	0.00	0.00	16.06	17.35	16.42	17.66	17.98
	3H	0.00	0.00	0.00	0.00	0.08	16.78	17.92	17.16	18.25	18.62
	4H	0.00	0.21	0.00	0.56	0.94	16.80	17.86	17.20	18.22	18.60
	6H	0.41	1.38	0.82	1.75	2.15	16.75	17.73	17.17	18.10	18.49
	8H	1.05	1.97	1.48	2.36	2.77	16.73	17.65	17.16	18.04	18.45
	12H	1.63	2.52	2.07	2.90	3.33	16.71	17.59	17.14	17.98	18.41
4H	2H	0.58	1.64	0.98	1.99	2.38	15.85	16.91	16.25	17.26	17.65
	3H	1.39	2.26	1.80	2.66	3.06	16.61	17.47	17.02	17.88	18.28
	4H	2.39	3.17	2.83	3.59	4.03	16.64	17.41	17.07	17.83	18.27
	6H	3.67	4.34	4.14	4.79	5.25	16.61	17.28	17.08	17.73	18.19
	8H	4.26	4.88	4.73	5.33	5.80	16.60	17.22	17.07	17.67	18.14
	12H	4.82	5.36	5.30	5.85	6.32	16.61	17.15	17.09	17.64	18.11
8H	4H	3.81	4.43	4.28	4.88	5.35	16.52	17.14	16.99	17.59	18.06
	6H	5.37	5.88	5.87	6.37	6.86	16.51	17.02	17.01	17.51	17.99
	8H	6.17	6.62	6.69	7.14	7.63	16.52	16.98	17.04	17.49	17.98
	12H	7.00	7.41	7.52	7.90	8.47	16.58	16.98	17.10	17.48	18.05
12H	4H	4.03	4.58	4.52	5.06	5.54	16.48	17.03	16.96	17.51	17.98
	6H	5.74	6.20	6.26	6.71	7.21	16.46	16.92	16.98	17.43	17.93
	8H	6.73	7.14	7.25	7.63	8.20	16.51	16.91	17.02	17.41	17.98