

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: P1062057

Luminaire Tested: S125RDR-H375D935-X4F0-XX-UDD-BVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1062057
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-H375D935-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: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

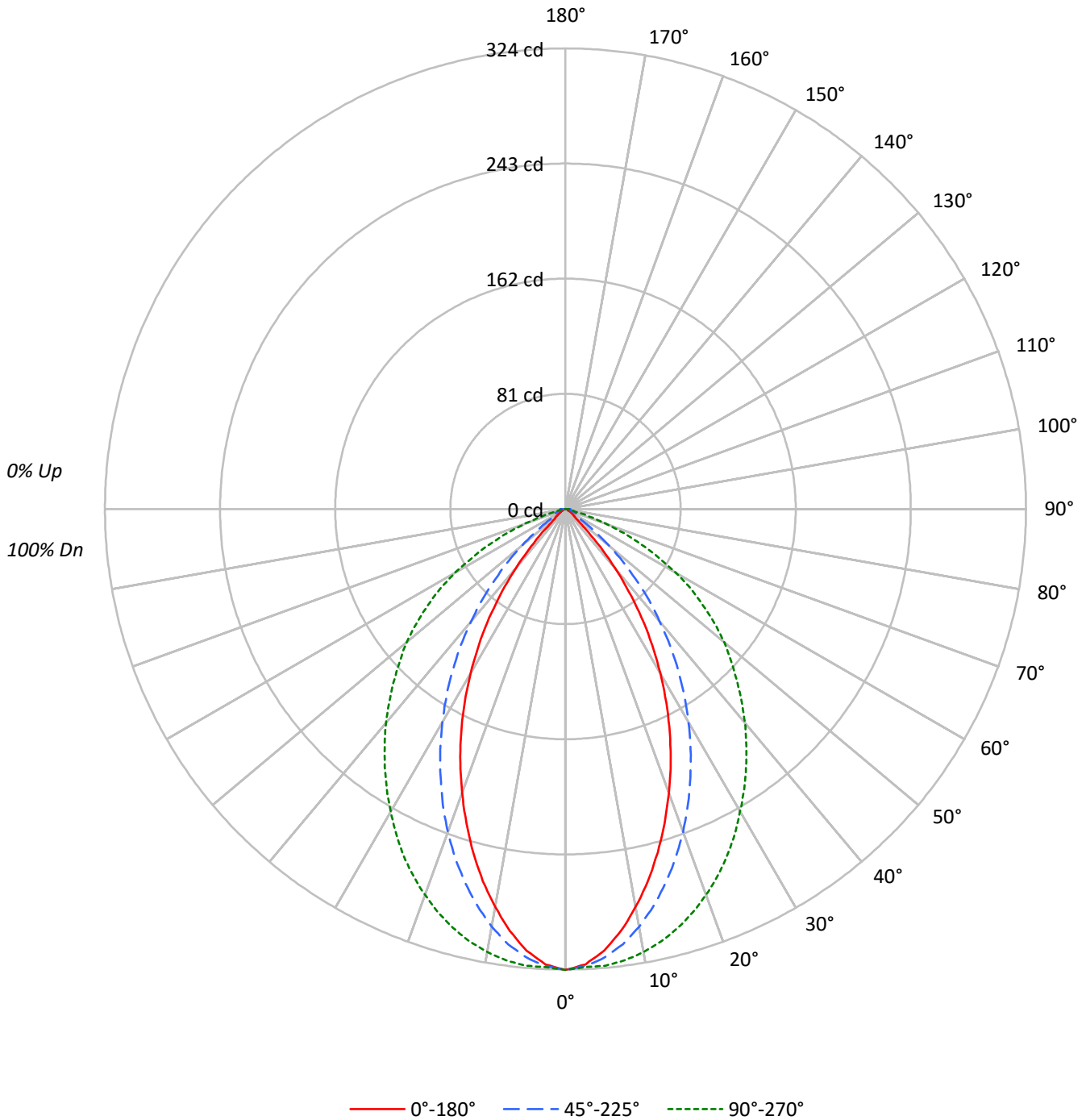
Lumens per Lamp: N/A
Luminaire Lumens: 419.5 lumens
Efficiency: N/A
Efficacy: 35.9 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.14 / 0.98
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
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				
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90				
2	104	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80				
3	98	89	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72				
4	91	82	75	70	89	81	74	69	78	73	68	76	71	67	74	70	67	65				
5	85	75	68	63	83	74	67	62	72	66	62	70	65	61	69	64	60	59				
6	80	69	62	57	78	68	61	56	67	60	56	65	60	56	64	59	55	53				
7	75	64	57	52	74	63	56	51	62	56	51	60	55	51	59	54	50	49				
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	46	45				
9	67	55	48	44	65	55	48	44	54	48	43	53	47	43	52	47	43	41				
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	44	40	38				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2233	2233	2233
5°	2156	2189	2229
10°	1988	2086	2212
15°	1785	1942	2176
20°	1558	1772	2118
25°	1320	1579	2045
30°	1060	1375	1953
35°	784	1160	1863
40°	485	927	1765
45°	190	677	1659
50°	89	424	1563
55°	65	181	1419
60°	44	129	1231
65°	29	135	956
70°	28	123	602
75°	37	125	192
80°	56	143	127
85°	87	284	197

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 1659 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.7	7.1
10°-20°	77.1	18.4
20°-30°	98.1	23.4
30°-40°	91.4	21.8
40°-50°	62.9	15.0
50°-60°	35.6	8.5
60°-70°	16.8	4.0
70°-80°	5.2	1.2
80°-90°	2.7	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°	204.9	48.8
0°-40°	296.3	70.6
0°-60°	394.7	94.1
0°-90°	419.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	419.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	324	324	324	324	324	
5°	312	316	317	320	322	29
15°	250	259	272	293	305	70
25°	174	185	208	243	269	79
35°	93	106	138	185	222	58
45°	20	31	70	126	170	18
55°	5	6	15	72	118	5
65°	2	2	8	26	59	2
75°	1	3	5	5	7	1
85°	1	3	4	3	2	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	324.3	324.3	324.3	324.3	324.3
2.5°	320.7	323.9	321.8	322.1	322.5
5°	312.0	316.4	316.7	319.6	322.5
7.5°	299.4	304.8	308.8	315.6	320.3
10°	284.3	290.8	298.4	309.5	316.4
12.5°	268.1	275.7	286.1	302.0	311.7
15°	250.4	258.7	272.4	292.9	305.2
17.5°	231.7	241.1	257.6	282.1	297.6
20°	212.6	222.7	241.8	269.9	289.0
22.5°	193.5	203.9	225.2	256.6	279.6
25°	173.7	184.8	207.9	242.9	269.2
27.5°	153.5	165.0	190.6	228.8	258.0
30°	133.3	145.6	173.0	214.4	245.7
32.5°	113.5	125.8	155.7	200.0	233.9
35°	93.3	106.3	138.0	185.2	221.6
37.5°	73.1	87.2	120.7	170.1	209.0
40°	54.0	67.4	103.1	155.3	196.4
42.5°	36.0	49.0	87.2	140.5	183.4
45°	19.5	31.0	69.5	125.8	170.4
47.5°	10.4	16.6	54.4	111.3	157.8
50°	8.3	9.4	39.6	98.0	145.9
52.5°	6.8	7.6	25.9	85.4	132.2
55°	5.4	6.1	15.1	72.4	118.2
57.5°	4.3	5.0	9.7	60.2	104.5
60°	3.2	4.0	9.4	48.3	89.4
62.5°	2.5	2.9	8.6	37.1	73.5
65°	1.8	2.2	8.3	25.9	58.7
67.5°	1.4	1.8	7.6	16.6	44.0
70°	1.4	1.4	6.1	10.8	29.9
72.5°	1.4	2.5	5.4	7.2	18.0
75°	1.4	3.2	4.7	5.0	7.2
77.5°	1.4	3.6	4.0	4.0	4.0
80°	1.4	3.2	3.6	3.6	3.2
82.5°	1.4	2.9	3.2	3.6	2.9
85°	1.1	2.9	3.6	3.2	2.5
87.5°	1.1	2.9	3.2	2.9	1.8
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	12.04	13.33	12.40	13.64	13.96
	3H	0.00	0.00	0.00	0.00	0.00	12.76	13.90	13.14	14.23	14.60
	4H	0.00	0.00	0.00	0.00	0.00	12.78	13.84	13.18	14.20	14.58
	6H	0.00	0.00	0.00	0.00	0.00	12.73	13.71	13.15	14.08	14.47
	8H	0.00	0.00	0.00	0.00	0.00	12.71	13.63	13.14	14.02	14.43
	12H	0.00	0.00	0.00	0.00	0.00	12.69	13.57	13.12	13.96	14.39
4H	2H	0.00	0.00	0.00	0.00	0.00	11.83	12.89	12.23	13.24	13.63
	3H	0.00	0.00	0.00	0.00	0.00	12.59	13.45	13.00	13.86	14.26
	4H	0.00	0.00	0.00	0.00	0.00	12.61	13.39	13.05	13.81	14.25
	6H	0.00	0.25	0.05	0.70	1.16	12.59	13.26	13.06	13.71	14.17
	8H	0.16	0.78	0.63	1.23	1.70	12.58	13.20	13.05	13.65	14.12
	12H	0.74	1.29	1.22	1.77	2.24	12.58	13.13	13.07	13.62	14.09
8H	4H	0.00	0.38	0.22	0.83	1.30	12.50	13.12	12.97	13.57	14.04
	6H	1.30	1.81	1.80	2.31	2.79	12.49	13.00	12.99	13.49	13.97
	8H	2.10	2.55	2.62	3.07	3.56	12.50	12.96	13.02	13.47	13.96
	12H	2.95	3.36	3.47	3.85	4.42	12.56	12.96	13.07	13.46	14.03
12H	4H	0.00	0.53	0.46	1.01	1.49	12.46	13.00	12.94	13.49	13.96
	6H	1.67	2.13	2.20	2.65	3.14	12.44	12.90	12.96	13.41	13.91
	8H	2.67	3.07	3.18	3.57	4.14	12.49	12.89	13.00	13.39	13.96