

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: P1061983

Luminaire Tested: S125RDR-H1270D940-X4F0-XX-UDD-BVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061983
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-48)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-H1270D940-X4F0-XX-UDD-BVL-B
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE LOUVER WITH DIFFUSER
HIGH PERFORMANCE LIGHT ENGINE
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

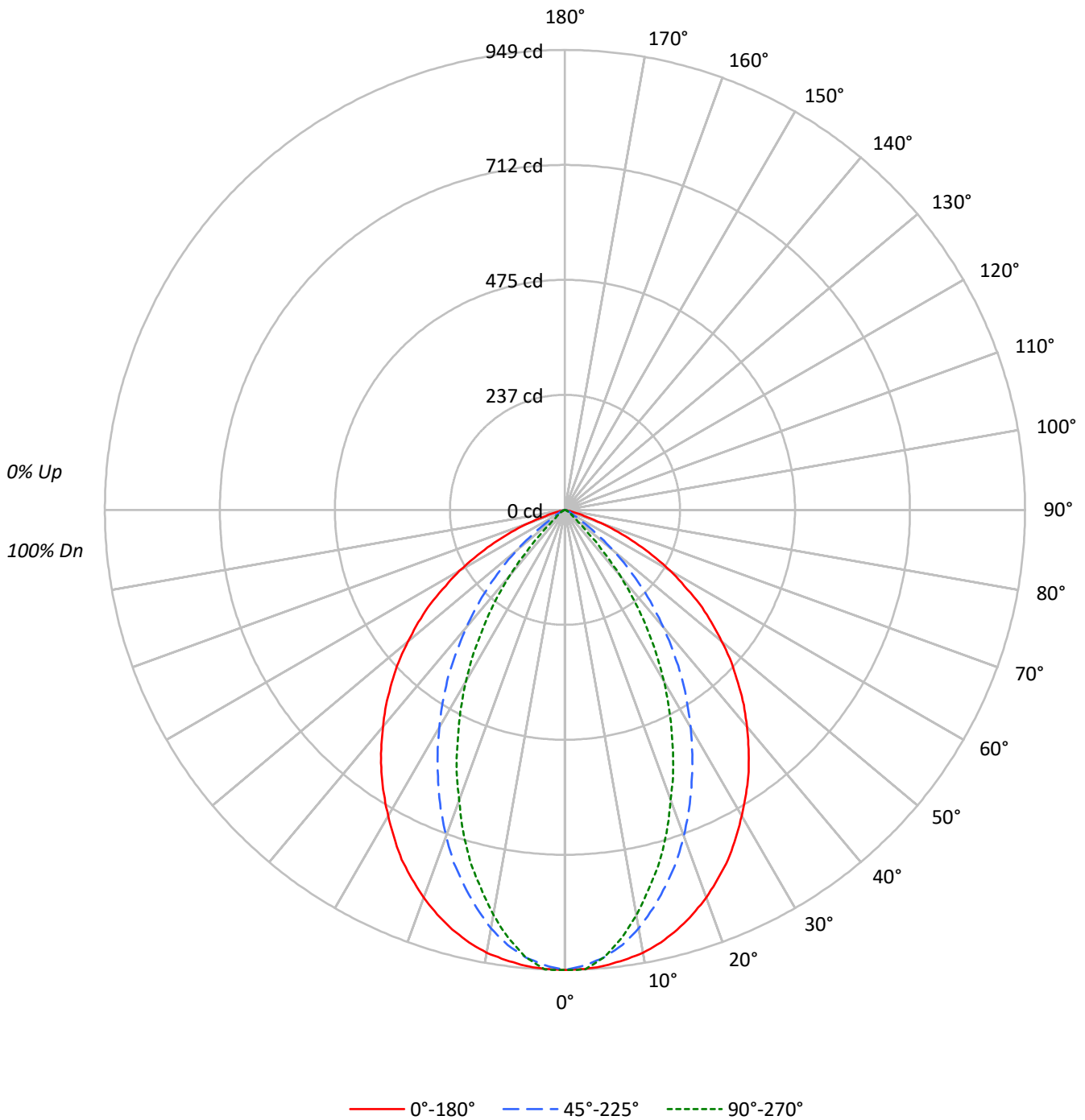
Lumens per Lamp: N/A
Luminaire Lumens: 1226.6 lumens
Efficiency: N/A
Efficacy: 33.6 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 0.81 / 0.97
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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									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	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	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91																												
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82																												
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73																												
4	92	83	76	71	90	82	75	70	79	74	70	77	72	69	75	71	68	66																												
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60																												
6	81	70	63	58	79	69	62	57	67	61	57	66	61	57	65	60	56	54																												
7	76	65	58	53	74	64	57	52	63	56	52	61	56	52	60	55	51	50																												
8	71	60	53	48	70	59	53	48	58	52	48	57	52	48	56	51	47	46																												
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42																												
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6537	6537	6537
5°	6527	6406	6406
10°	6489	6130	5937
15°	6393	5723	5366
20°	6241	5250	4672
25°	6052	4701	3978
30°	5796	4123	3246
35°	5548	3517	2432
40°	5246	2837	1577
45°	4915	2147	683
50°	4521	1369	255
55°	4074	601	180
60°	3450	259	121
65°	2612	163	62
70°	1588	76	26
75°	333	35	35
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4915 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.5	7.1
10°-20°	228.2	18.6
20°-30°	292.9	23.9
30°-40°	275.8	22.5
40°-50°	192.8	15.7
50°-60°	103.0	8.4
60°-70°	41.1	3.3
70°-80°	5.3	0.4
80°-90°	0.0	0.0
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°	608.6	49.6
0°-40°	884.4	72.1
0°-60°	1180.2	96.2
0°-90°	1226.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1226.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	949	949	949	949	949	
5°	944	942	927	929	927	90
15°	897	868	803	765	753	252
25°	797	726	619	551	524	366
35°	660	555	418	323	289	412
45°	505	378	220	106	70	389
55°	339	208	50	18	15	301
65°	160	64	10	5	4	159
75°	12	4	1	1	1	24
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	949.4	949.4	949.4	949.4	949.4
2.5°	948.2	949.4	940.7	948.2	949.4
5°	944.4	941.9	926.9	929.4	926.9
7.5°	936.9	930.7	905.6	896.8	891.8
10°	928.1	914.4	876.8	858.0	849.2
12.5°	914.4	894.3	841.7	812.9	800.4
15°	896.8	868.0	802.9	765.3	752.8
17.5°	875.5	838.0	762.8	716.5	697.7
20°	851.7	801.6	716.5	661.4	637.6
22.5°	824.2	766.6	668.9	607.5	583.7
25°	796.6	726.5	618.8	551.1	523.6
27.5°	762.8	685.2	568.7	496.0	466.0
30°	729.0	643.8	518.6	439.6	408.3
32.5°	695.2	600.0	468.5	380.8	349.5
35°	660.1	554.9	418.4	323.2	289.3
37.5°	622.5	509.8	364.5	268.0	233.0
40°	583.7	466.0	315.6	214.2	175.4
42.5°	546.1	422.1	266.8	161.6	119.0
45°	504.8	378.3	220.5	106.5	70.1
47.5°	466.0	335.7	172.9	61.4	36.3
50°	422.1	291.8	127.8	32.6	23.8
52.5°	380.8	249.3	85.2	21.3	18.8
55°	339.4	207.9	50.1	17.5	15.0
57.5°	291.8	167.8	27.6	13.8	11.3
60°	250.5	131.5	18.8	10.0	8.8
62.5°	202.9	96.4	13.8	7.5	6.3
65°	160.3	63.9	10.0	5.0	3.8
67.5°	119.0	37.6	6.3	2.5	2.5
70°	78.9	20.0	3.8	1.3	1.3
72.5°	41.3	8.8	2.5	1.3	1.3
75°	12.5	3.8	1.3	1.3	1.3
77.5°	0.0	1.3	0.0	0.0	1.3
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
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	15.47	16.73	15.83	17.04	17.36	0.00	0.00	0.00	0.00	0.00
	3H	16.05	17.16	16.43	17.49	17.86	0.00	0.00	0.00	0.00	0.00
	4H	16.01	17.05	16.42	17.40	17.78	0.00	0.00	0.00	0.00	0.00
	6H	15.93	16.87	16.34	17.24	17.64	0.00	0.00	0.00	0.00	0.00
	8H	15.88	16.77	16.31	17.17	17.57	0.00	0.00	0.00	0.00	0.00
	12H	15.84	16.69	16.27	17.07	17.50	0.00	0.00	0.00	0.00	0.00
4H	2H	15.24	16.27	15.64	16.62	17.01	0.00	0.00	0.00	0.00	0.00
	3H	15.83	16.67	16.24	17.07	17.47	0.00	0.00	0.00	0.00	0.00
	4H	15.78	16.52	16.22	16.94	17.39	0.00	0.00	0.00	0.00	0.00
	6H	15.69	16.33	16.16	16.78	17.25	0.00	0.00	0.00	0.00	0.00
	8H	15.63	16.23	16.10	16.67	17.15	0.00	0.00	0.00	0.00	0.00
	12H	15.58	16.10	16.07	16.59	17.06	0.00	0.00	0.00	0.00	0.00
8H	4H	15.63	16.23	16.10	16.67	17.15	0.00	0.00	0.00	0.00	0.00
	6H	15.53	16.01	16.03	16.51	16.99	0.00	0.00	0.00	0.00	0.00
	8H	15.46	15.89	15.98	16.41	16.90	0.00	0.00	0.00	0.00	0.00
	12H	15.41	15.79	15.93	16.29	16.86	0.00	0.00	0.00	0.00	0.00
12H	4H	15.58	16.10	16.07	16.59	17.06	0.00	0.00	0.00	0.00	0.00
	6H	15.46	15.89	15.98	16.41	16.90	0.00	0.00	0.00	0.00	0.00
	8H	15.41	15.79	15.93	16.29	16.86	0.00	0.00	0.00	0.00	0.00