

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: P1175363

Luminaire Tested: S125RDRP-S1270D940-X4F0-XX-UDD-WVL-W

Issue Date: 8/18/2025

Test Information

Test Method: LM-79-2024
Report Number: P1175363
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-82)
Test Lab: INNOVATION CENTER
Issue Date: 8/18/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-S1270D940-X4F0-XX-UDD-WVL-W
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

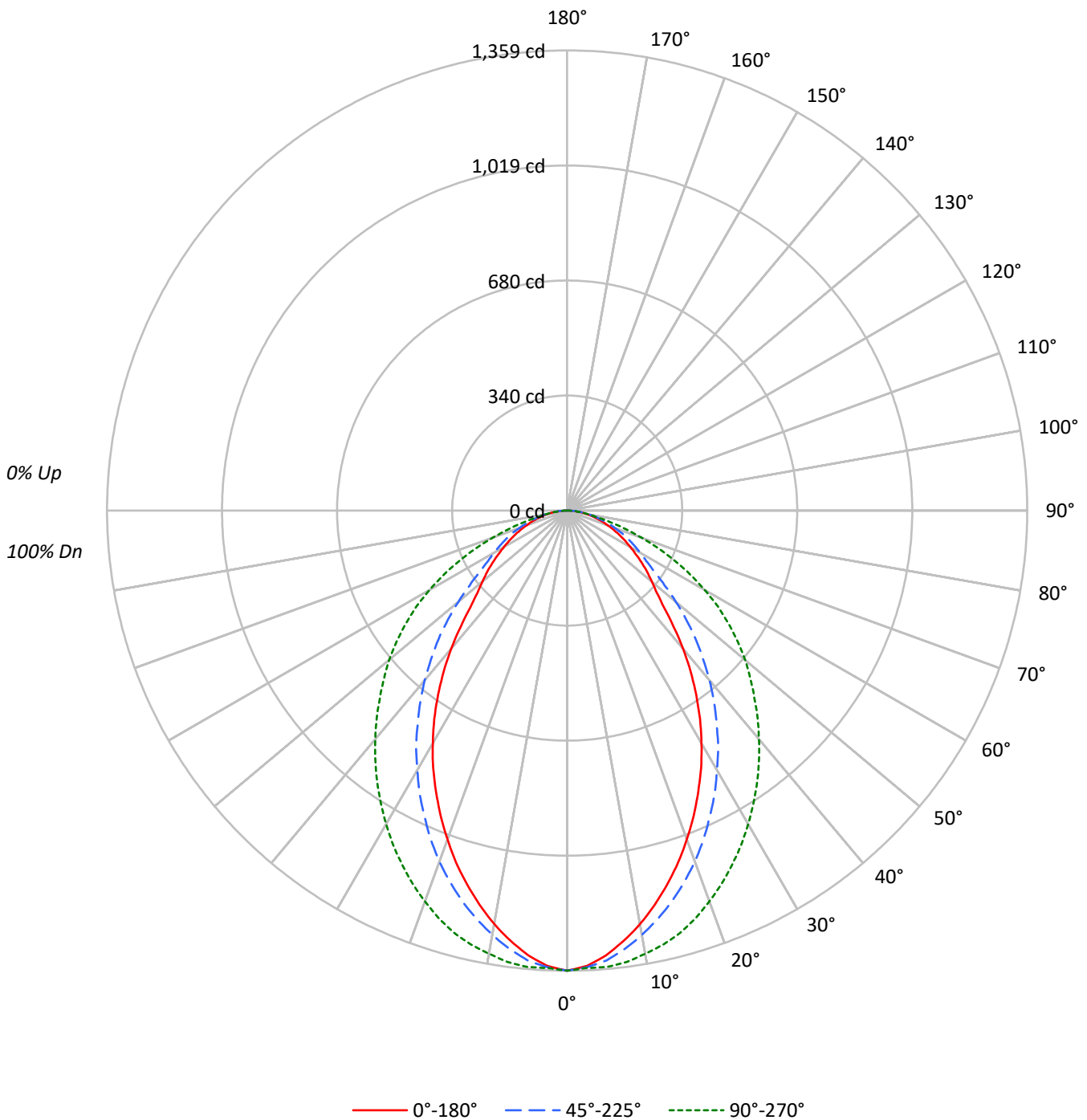
Lumens per Lamp: N/A
Luminaire Lumens: 2559.9 lumens
Efficiency: N/A
Efficacy: 61.2 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.8
Input Voltage (V): 120
Input Current (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	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	107	104	100	97	99	97	94	96	93	91	92	90	88	86				
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76	74				
3	93	84	76	71	91	82	75	70	79	73	69	77	72	68	74	70	66	64				
4	86	75	67	61	84	74	66	61	72	65	60	69	64	59	67	62	58	56				
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50				
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44				
7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40				
8	65	52	44	39	63	51	44	39	50	43	38	49	43	38	48	42	38	36				
9	61	48	40	35	59	48	40	35	46	40	35	45	39	35	44	39	35	33				
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9356	9356	9356
5°	9113	9216	9352
10°	8669	8895	9290
15°	8148	8518	9201
20°	7573	8080	9001
25°	6958	7571	8763
30°	6309	7034	8501
35°	5584	6467	8222
40°	4790	5878	7921
45°	3931	5234	7615
50°	3496	4498	7351
55°	3227	3767	6979
60°	2970	3432	6465
65°	2763	3232	5714
70°	2577	3020	4668
75°	2423	2793	3498
80°	2288	2561	2514
85°	2093	2552	2093

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 7615 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.8	4.9
10°-20°	339.1	13.2
20°-30°	466.5	18.2
30°-40°	494.8	19.3
40°-50°	433.0	16.9
50°-60°	332.3	13.0
60°-70°	221.3	8.6
70°-80°	113.5	4.4
80°-90°	33.7	1.3
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°	931.3	36.4
0°-40°	1426.1	55.7
0°-60°	2191.4	85.6
0°-90°	2559.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2559.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1359	1359	1359	1359	1359	
5°	1318	1336	1333	1343	1353	123
15°	1143	1170	1195	1252	1291	320
25°	916	947	997	1081	1154	421
35°	664	696	769	882	978	414
45°	404	437	538	671	782	319
55°	269	274	314	466	581	241
65°	170	171	198	261	351	169
75°	91	97	105	111	132	97
85°	26	30	32	31	26	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1358.8	1358.8	1358.8	1358.8	1358.8
2.5°	1346.1	1360.0	1349.6	1350.8	1351.9
5°	1318.5	1335.8	1333.4	1342.7	1353.1
7.5°	1281.5	1300.0	1305.8	1328.8	1345.0
10°	1240.0	1260.8	1272.3	1306.9	1328.8
12.5°	1192.7	1216.9	1235.4	1280.4	1312.7
15°	1143.1	1169.7	1195.0	1251.5	1290.8
17.5°	1090.1	1116.6	1150.0	1214.6	1261.9
20°	1033.5	1062.4	1102.7	1172.0	1228.5
22.5°	975.9	1005.9	1052.0	1128.1	1192.7
25°	915.9	947.0	996.6	1080.8	1153.5
27.5°	857.1	885.9	943.6	1033.5	1113.1
30°	793.6	823.6	884.7	983.9	1069.3
32.5°	730.2	760.2	830.5	934.3	1024.3
35°	664.4	695.6	769.4	882.4	978.2
37.5°	598.7	631.0	712.9	829.4	930.9
40°	532.9	567.5	654.0	776.3	881.3
42.5°	466.0	502.9	594.1	724.4	832.8
45°	403.7	437.2	537.5	671.3	782.1
47.5°	358.7	378.3	477.5	617.1	733.6
50°	326.4	335.7	419.9	565.2	686.3
52.5°	297.6	303.4	363.4	516.8	634.4
55°	268.8	274.5	313.8	466.0	581.4
57.5°	241.1	244.5	276.8	415.3	528.3
60°	215.7	218.0	249.2	364.5	469.5
62.5°	192.6	193.8	222.6	312.6	410.6
65°	169.6	170.7	198.4	260.7	350.7
67.5°	148.8	148.8	175.3	213.4	293.0
70°	128.0	128.0	150.0	173.0	231.9
72.5°	109.6	111.9	126.9	139.6	181.1
75°	91.1	96.9	105.0	110.7	131.5
77.5°	73.8	80.7	84.2	86.5	87.7
80°	57.7	62.3	64.6	65.7	63.4
82.5°	42.7	46.1	47.3	47.3	43.8
85°	26.5	30.0	32.3	31.1	26.5
87.5°	12.7	17.3	18.5	16.1	12.7
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	14.38	15.88	14.75	16.20	16.51	18.41	19.91	18.77	20.22	20.54
	3H	15.97	17.31	16.35	17.64	18.00	19.80	21.14	20.17	21.47	21.83
	4H	16.61	17.87	17.01	18.22	18.60	20.20	21.46	20.60	21.81	22.19
	6H	17.12	18.29	17.54	18.65	19.05	20.41	21.57	20.82	21.94	22.33
	8H	17.30	18.41	17.73	18.80	19.20	20.47	21.57	20.89	21.96	22.37
	12H	17.43	18.49	17.86	18.87	19.30	20.50	21.56	20.93	21.94	22.37
4H	2H	15.15	16.41	15.55	16.76	17.14	18.54	19.80	18.94	20.15	20.53
	3H	16.94	17.98	17.35	18.38	18.78	20.11	21.16	20.52	21.56	21.96
	4H	17.70	18.64	18.14	19.06	19.50	20.62	21.56	21.05	21.98	22.42
	6H	18.34	19.16	18.80	19.60	20.07	20.94	21.76	21.40	22.21	22.67
	8H	18.57	19.34	19.04	19.78	20.25	21.04	21.81	21.51	22.25	22.72
	12H	18.74	19.43	19.23	19.91	20.38	21.12	21.80	21.60	22.28	22.75
8H	4H	18.09	18.85	18.55	19.30	19.76	20.72	21.48	21.18	21.93	22.40
	6H	18.86	19.50	19.36	19.99	20.47	21.14	21.77	21.63	22.26	22.74
	8H	19.18	19.75	19.69	20.26	20.75	21.30	21.86	21.81	22.37	22.86
	12H	19.44	19.94	19.95	20.44	21.00	21.43	21.94	21.94	22.43	22.99
12H	4H	18.13	18.81	18.61	19.29	19.76	20.72	21.40	21.20	21.88	22.35
	6H	18.94	19.51	19.45	20.02	20.51	21.15	21.72	21.66	22.23	22.72
	8H	19.32	19.82	19.83	20.32	20.88	21.36	21.86	21.87	22.35	22.92