

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: P1175408

Luminaire Tested: S125RDRP-H1270D940-X4F0-XX-UDD-WVL-W

Issue Date: 8/18/2025

Test Information

Test Method: LM-79-2024
Report Number: P1175408
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-H1270D940-X4F0-XX-UDD-WVL-W
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE
LOUVER WITH DIFFUSER
HIGH PERFORMANCE LIGHT ENGINE
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

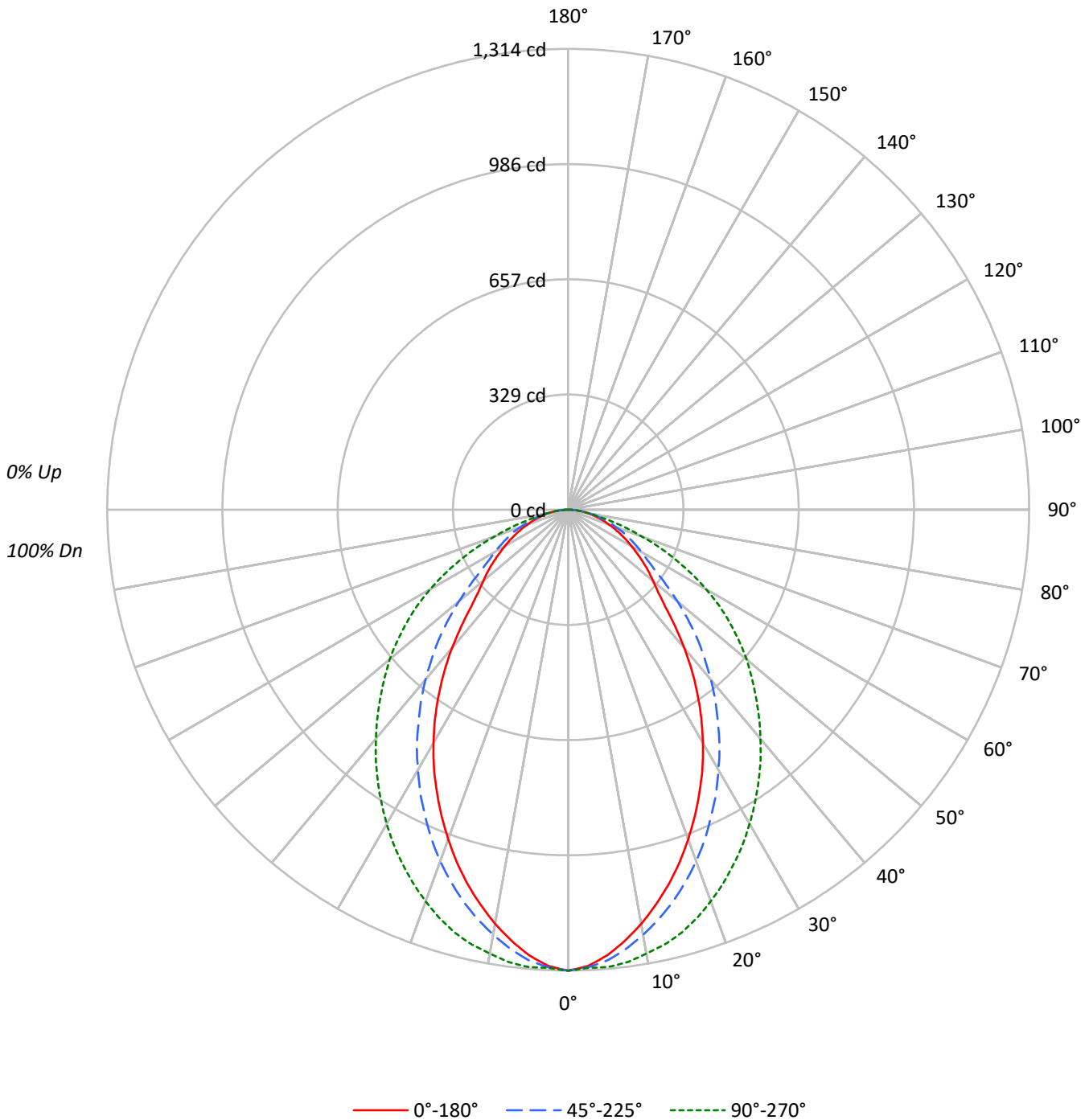
Lumens per Lamp: N/A
Luminaire Lumens: 2476.3 lumens
Efficiency: N/A
Efficacy: 67.8 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 36.5
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	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°	9050	9050	9050
5°	8815	8915	9047
10°	8386	8604	8987
15°	7882	8240	8900
20°	7326	7816	8707
25°	6731	7324	8477
30°	6104	6804	8224
35°	5402	6256	7953
40°	4633	5687	7662
45°	3802	5063	7366
50°	3383	4351	7111
55°	3121	3643	6751
60°	2874	3319	6253
65°	2672	3126	5526
70°	2494	2921	4515
75°	2344	2700	3384
80°	2212	2478	2435
85°	2030	2465	2030

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 7366 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.7	4.9
10°-20°	328.0	13.2
20°-30°	451.2	18.2
30°-40°	478.6	19.3
40°-50°	418.9	16.9
50°-60°	321.4	13.0
60°-70°	214.1	8.6
70°-80°	109.8	4.4
80°-90°	32.6	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°	900.9	36.4
0°-40°	1379.5	55.7
0°-60°	2119.9	85.6
0°-90°	2476.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2476.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1314	1314	1314	1314	1314	
5°	1275	1292	1290	1299	1309	119
15°	1106	1131	1156	1211	1249	310
25°	886	916	964	1046	1116	407
35°	643	673	744	854	946	400
45°	390	423	520	649	756	308
55°	260	266	304	451	562	233
65°	164	165	192	252	339	163
75°	88	94	102	107	127	94
85°	26	29	31	30	26	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1314.4	1314.4	1314.4	1314.4	1314.4
2.5°	1302.2	1315.5	1305.5	1306.6	1307.7
5°	1275.4	1292.1	1289.9	1298.8	1308.9
7.5°	1239.7	1257.5	1263.1	1285.4	1301.0
10°	1199.5	1219.6	1230.7	1264.2	1285.4
12.5°	1153.8	1177.2	1195.0	1238.6	1269.8
15°	1105.8	1131.4	1156.0	1210.7	1248.6
17.5°	1054.4	1080.1	1112.5	1175.0	1220.7
20°	999.8	1027.7	1066.7	1133.7	1188.3
22.5°	944.0	973.0	1017.6	1091.3	1153.8
25°	886.0	916.1	964.1	1045.5	1115.8
27.5°	829.1	856.9	912.7	999.8	1076.8
30°	767.7	796.7	855.8	951.8	1034.4
32.5°	706.3	735.3	803.4	903.8	990.8
35°	642.7	672.8	744.3	853.6	946.2
37.5°	579.1	610.4	689.6	802.3	900.5
40°	515.5	549.0	632.7	750.9	852.5
42.5°	450.8	486.5	574.6	700.7	805.6
45°	390.5	422.9	520.0	649.4	756.5
47.5°	347.0	366.0	461.9	597.0	709.7
50°	315.8	324.7	406.2	546.8	663.9
52.5°	287.9	293.5	351.5	499.9	613.7
55°	260.0	265.6	303.5	450.8	562.4
57.5°	233.2	236.6	267.8	401.7	511.0
60°	208.7	210.9	241.0	352.6	454.1
62.5°	186.3	187.5	215.4	302.4	397.2
65°	164.0	165.1	191.9	252.2	339.2
67.5°	143.9	143.9	169.6	206.4	283.4
70°	123.9	123.9	145.1	167.4	224.3
72.5°	106.0	108.2	122.7	135.0	175.2
75°	88.1	93.7	101.5	107.1	127.2
77.5°	71.4	78.1	81.5	83.7	84.8
80°	55.8	60.3	62.5	63.6	61.4
82.5°	41.3	44.6	45.7	45.7	42.4
85°	25.7	29.0	31.2	30.1	25.7
87.5°	12.3	16.7	17.9	15.6	12.3
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	14.27	15.77	14.63	16.08	16.40	18.29	19.79	18.66	20.11	20.42
	3H	15.86	17.20	16.23	17.53	17.89	19.68	21.03	20.06	21.35	21.72
	4H	16.50	17.76	16.90	18.11	18.49	20.09	21.35	20.49	21.70	22.08
	6H	17.01	18.17	17.42	18.54	18.93	20.29	21.46	20.71	21.82	22.22
	8H	17.19	18.30	17.62	18.69	19.09	20.35	21.46	20.78	21.85	22.25
	12H	17.32	18.38	17.75	18.76	19.19	20.38	21.44	20.81	21.83	22.26
4H	2H	15.04	16.30	15.44	16.65	17.03	18.42	19.68	18.82	20.03	20.41
	3H	16.82	17.87	17.23	18.27	18.67	19.99	21.04	20.40	21.44	21.84
	4H	17.59	18.53	18.02	18.95	19.38	20.50	21.44	20.94	21.86	22.30
	6H	18.23	19.05	18.69	19.49	19.95	20.83	21.65	21.29	22.09	22.55
	8H	18.46	19.22	18.92	19.67	20.14	20.93	21.69	21.39	22.14	22.61
	12H	18.63	19.31	19.11	19.79	20.26	21.00	21.68	21.48	22.16	22.63
8H	4H	17.97	18.74	18.44	19.18	19.65	20.60	21.37	21.07	21.81	22.28
	6H	18.75	19.38	19.25	19.87	20.35	21.02	21.65	21.52	22.15	22.62
	8H	19.07	19.63	19.58	20.14	20.63	21.18	21.75	21.70	22.26	22.75
	12H	19.33	19.83	19.84	20.32	20.89	21.32	21.82	21.83	22.31	22.88
12H	4H	18.01	18.69	18.49	19.17	19.64	20.60	21.29	21.08	21.76	22.24
	6H	18.82	19.39	19.34	19.90	20.39	21.03	21.60	21.55	22.11	22.60
	8H	19.21	19.71	19.72	20.20	20.77	21.24	21.75	21.75	22.24	22.80