

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: P1061585

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061585
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-85)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-S1270D940-X4F0-XX-UDD-WVL-S
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

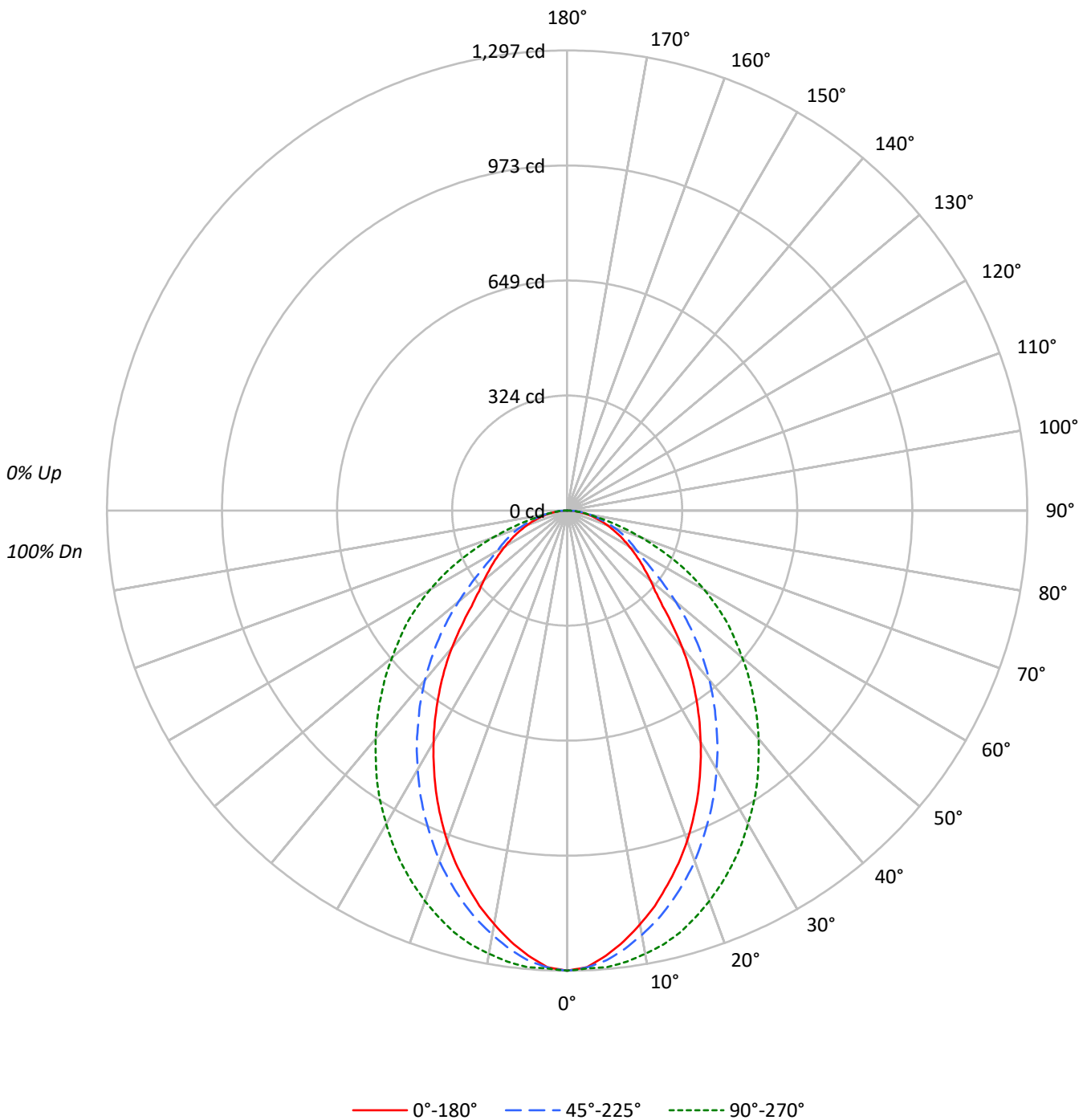
Lumens per Lamp: N/A
Luminaire Lumens: 2431.1 lumens
Efficiency: N/A
Efficacy: 58.2 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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	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	74	69	77	72	68	74	70	66	64
4	86	75	67	61	84	74	67	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	48	59	52	47	58	52	47	56	51	46	44
7	69	57	49	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40
8	65	52	44	39	63	52	44	39	50	43	38	49	43	38	48	42	38	36
9	61	48	41	35	59	48	40	35	47	40	35	46	39	35	45	39	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8929	8929	8929
5°	8704	8793	8927
10°	8279	8487	8867
15°	7785	8127	8773
20°	7252	7708	8582
25°	6644	7214	8366
30°	5984	6695	8106
35°	5292	6153	7851
40°	4542	5600	7545
45°	3709	4983	7228
50°	3288	4274	6897
55°	3017	3546	6609
60°	2783	3140	6155
65°	2595	3019	5487
70°	2426	2869	4485
75°	2240	2690	3309
80°	2105	2518	2415
85°	1943	2457	2046

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 7228 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.0	4.9
10°-20°	323.3	13.3
20°-30°	444.3	18.3
30°-40°	470.9	19.4
40°-50°	411.0	16.9
50°-60°	312.2	12.8
60°-70°	209.2	8.6
70°-80°	107.9	4.4
80°-90°	32.3	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°	887.5	36.5
0°-40°	1358.4	55.9
0°-60°	2081.7	85.6
0°-90°	2431.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2431.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1297	1297	1297	1297	1297	
5°	1259	1272	1272	1281	1292	118
15°	1092	1113	1140	1191	1231	306
25°	874	902	950	1029	1101	401
35°	630	666	732	836	934	393
45°	381	418	512	634	742	301
55°	251	259	295	434	551	225
65°	159	163	185	247	337	158
75°	84	89	101	108	124	90
85°	25	31	31	28	26	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1296.8	1296.8	1296.8	1296.8	1296.8
2.5°	1287.8	1296.8	1289.0	1289.0	1291.6
5°	1259.3	1272.2	1272.2	1281.3	1291.6
7.5°	1224.3	1238.5	1246.3	1267.0	1282.6
10°	1184.1	1199.7	1213.9	1245.0	1268.3
12.5°	1141.4	1158.2	1180.2	1220.4	1252.8
15°	1092.1	1112.9	1140.1	1190.6	1230.7
17.5°	1042.9	1063.6	1097.3	1156.9	1202.2
20°	989.8	1011.8	1052.0	1116.7	1171.2
22.5°	932.8	957.4	1000.1	1074.0	1137.5
25°	874.5	901.7	949.6	1028.6	1101.2
27.5°	813.6	846.0	897.8	982.0	1062.3
30°	752.7	785.1	842.1	934.1	1019.6
32.5°	691.8	726.8	789.0	886.1	978.1
35°	629.6	665.9	732.0	835.6	934.1
37.5°	568.7	605.0	678.9	786.4	886.1
40°	505.3	542.8	623.1	735.9	839.5
42.5°	440.5	480.6	567.4	684.0	791.6
45°	380.9	418.5	511.7	633.5	742.3
47.5°	336.8	361.5	456.0	581.7	694.4
50°	307.0	320.0	399.0	531.2	643.9
52.5°	277.2	287.6	345.9	479.3	595.9
55°	251.3	259.1	295.4	434.0	550.6
57.5°	225.4	233.2	256.5	388.7	497.5
60°	202.1	208.6	228.0	340.7	447.0
62.5°	180.1	185.3	206.0	295.4	392.5
65°	159.3	163.2	185.3	247.4	336.8
67.5°	138.6	142.5	164.5	202.1	277.2
70°	120.5	121.8	142.5	164.5	222.8
72.5°	102.3	103.6	120.5	133.4	171.0
75°	84.2	89.4	101.1	107.5	124.4
77.5°	68.7	75.1	81.6	84.2	84.2
80°	53.1	60.9	63.5	63.5	60.9
82.5°	38.9	45.3	46.6	44.0	41.5
85°	24.6	31.1	31.1	28.5	25.9
87.5°	11.7	16.8	16.8	15.5	11.7
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	14.21	15.71	14.58	16.02	16.34	18.14	19.64	18.51	19.95	20.27
	3H	15.78	17.13	16.16	17.46	17.82	19.56	20.91	19.94	21.23	21.60
	4H	16.40	17.66	16.80	18.01	18.38	19.98	21.24	20.38	21.59	21.96
	6H	16.89	18.06	17.31	18.42	18.81	20.19	21.36	20.61	21.72	22.12
	8H	17.07	18.17	17.49	18.56	18.96	20.25	21.36	20.68	21.75	22.15
	12H	17.19	18.25	17.62	18.63	19.06	20.29	21.35	20.72	21.73	22.16
4H	2H	14.95	16.21	15.35	16.56	16.94	18.27	19.53	18.67	19.88	20.25
	3H	16.73	17.77	17.14	18.17	18.58	19.88	20.92	20.29	21.32	21.72
	4H	17.46	18.41	17.90	18.82	19.26	20.40	21.34	20.84	21.76	22.20
	6H	18.10	18.92	18.56	19.36	19.82	20.75	21.56	21.20	22.01	22.47
	8H	18.33	19.09	18.79	19.54	20.01	20.85	21.61	21.31	22.05	22.52
	12H	18.50	19.19	18.99	19.66	20.14	20.92	21.60	21.40	22.08	22.55
8H	4H	17.87	18.63	18.33	19.07	19.54	20.51	21.28	20.97	21.72	22.19
	6H	18.65	19.28	19.15	19.78	20.25	20.95	21.58	21.45	22.07	22.55
	8H	18.98	19.54	19.49	20.05	20.54	21.11	21.67	21.62	22.18	22.67
	12H	19.25	19.75	19.76	20.24	20.81	21.24	21.74	21.75	22.24	22.80
12H	4H	17.91	18.59	18.39	19.07	19.54	20.51	21.19	20.99	21.67	22.14
	6H	18.73	19.30	19.25	19.81	20.30	20.97	21.53	21.48	22.04	22.53
	8H	19.13	19.63	19.64	20.12	20.69	21.17	21.68	21.68	22.17	22.73