

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: P1061540

Luminaire Tested: S125RDRP-S1270D840-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061540
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-S1270D840-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, 80 CRI LEDS
Ballast/Driver: -

Summary

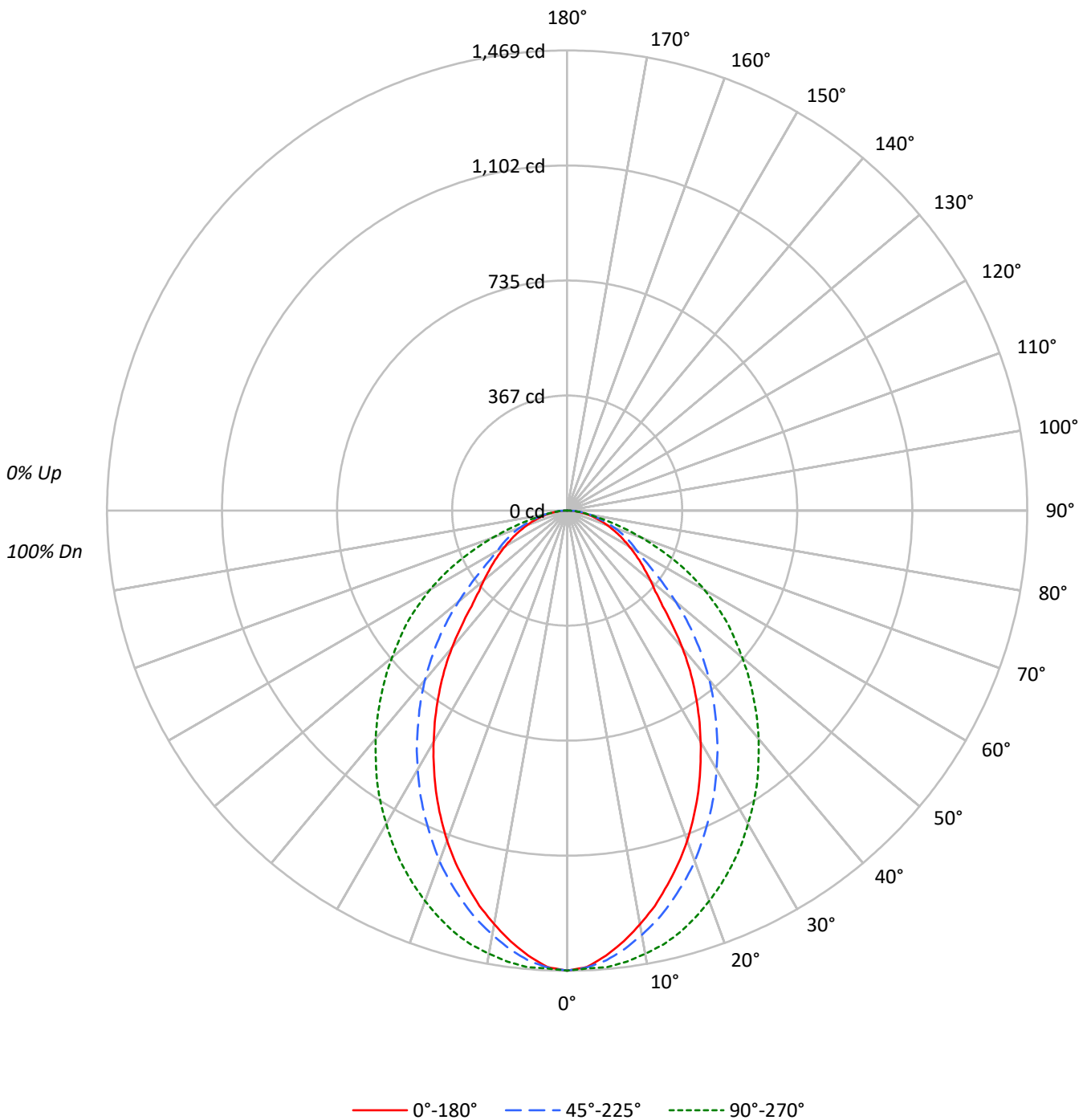
Lumens per Lamp: N/A
Luminaire Lumens: 2753.2 lumens
Efficiency: N/A
Efficacy: 65.9 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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	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													100															
1	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86													86															
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76	74													74															
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64													64															
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58	56													56															
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50													50															
6	74	62	54	48	72	61	53	48	59	52	47	58	52	47	56	51	46	44													44															
7	69	57	49	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40													40															
8	65	52	44	39	63	52	44	39	50	43	38	49	43	38	48	42	38	36													36															
9	61	48	41	35	59	48	40	35	47	40	35	46	39	35	45	39	35	33													33															
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	30													30															

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10112	10112	10112
5°	9857	9958	10110
10°	9376	9612	10043
15°	8816	9203	9935
20°	8213	8730	9718
25°	7524	8170	9474
30°	6777	7582	9180
35°	5994	6968	8891
40°	5143	6343	8545
45°	4201	5643	8186
50°	3724	4841	7811
55°	3416	4015	7486
60°	3152	3556	6971
65°	2941	3418	6215
70°	2746	3249	5081
75°	2538	3043	3748
80°	2387	2851	2736
85°	2204	2781	2315

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 8186 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.9	4.9
10°-20°	366.1	13.3
20°-30°	503.2	18.3
30°-40°	533.2	19.4
40°-50°	465.5	16.9
50°-60°	353.6	12.8
60°-70°	236.9	8.6
70°-80°	122.2	4.4
80°-90°	36.6	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°	1005.2	36.5
0°-40°	1538.4	55.9
0°-60°	2357.5	85.6
0°-90°	2753.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2753.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1469	1469	1469	1469	1469	
5°	1426	1441	1441	1451	1463	133
15°	1237	1260	1291	1348	1394	347
25°	990	1021	1075	1165	1247	454
35°	713	754	829	946	1058	445
45°	431	474	580	718	841	341
55°	285	293	334	492	624	255
65°	180	185	210	280	382	179
75°	95	101	114	122	141	102
85°	28	35	35	32	29	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1468.7	1468.7	1468.7	1468.7	1468.7
2.5°	1458.4	1468.7	1459.9	1459.9	1462.8
5°	1426.1	1440.8	1440.8	1451.0	1462.8
7.5°	1386.5	1402.6	1411.4	1434.9	1452.5
10°	1341.0	1358.6	1374.8	1410.0	1436.4
12.5°	1292.6	1311.7	1336.6	1382.1	1418.8
15°	1236.8	1260.3	1291.1	1348.3	1393.8
17.5°	1181.1	1204.6	1242.7	1310.2	1361.6
20°	1120.9	1145.9	1191.4	1264.7	1326.3
22.5°	1056.4	1084.3	1132.7	1216.3	1288.2
25°	990.4	1021.2	1075.4	1164.9	1247.1
27.5°	921.4	958.1	1016.8	1112.1	1203.1
30°	852.4	889.1	953.7	1057.8	1154.7
32.5°	783.5	823.1	893.5	1003.6	1107.7
35°	713.1	754.1	829.0	946.3	1057.8
37.5°	644.1	685.2	768.8	890.6	1003.6
40°	572.2	614.8	705.7	833.4	950.7
42.5°	498.8	544.3	642.6	774.7	896.5
45°	431.4	473.9	579.5	717.5	840.7
47.5°	381.5	409.3	516.5	658.8	786.4
50°	347.7	362.4	451.9	601.5	729.2
52.5°	314.0	325.7	391.7	542.9	674.9
55°	284.6	293.4	334.5	491.5	623.6
57.5°	255.3	264.1	290.5	440.2	563.4
60°	228.9	236.2	258.2	385.9	506.2
62.5°	203.9	209.8	233.3	334.5	444.6
65°	180.5	184.9	209.8	280.2	381.5
67.5°	157.0	161.4	186.3	228.9	314.0
70°	136.4	137.9	161.4	186.3	252.4
72.5°	115.9	117.4	136.4	151.1	193.7
75°	95.4	101.2	114.4	121.8	140.9
77.5°	77.8	85.1	92.4	95.4	95.4
80°	60.2	69.0	71.9	71.9	69.0
82.5°	44.0	51.4	52.8	49.9	47.0
85°	27.9	35.2	35.2	32.3	29.3
87.5°	13.2	19.1	19.1	17.6	13.2
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	14.65	16.14	15.01	16.46	16.77	18.57	20.07	18.94	20.38	20.70
	3H	16.22	17.56	16.60	17.89	18.25	20.00	21.34	20.37	21.67	22.03
	4H	16.83	18.09	17.23	18.44	18.82	20.41	21.67	20.81	22.02	22.40
	6H	17.33	18.49	17.74	18.86	19.25	20.63	21.79	21.04	22.16	22.55
	8H	17.50	18.61	17.93	19.00	19.40	20.69	21.79	21.11	22.18	22.58
	12H	17.62	18.68	18.05	19.06	19.49	20.72	21.78	21.15	22.16	22.59
4H	2H	15.38	16.64	15.78	16.99	17.37	18.70	19.96	19.10	20.31	20.69
	3H	17.16	18.21	17.57	18.61	19.01	20.31	21.35	20.72	21.75	22.16
	4H	17.90	18.84	18.33	19.25	19.69	20.84	21.78	21.27	22.19	22.63
	6H	18.53	19.35	18.99	19.79	20.25	21.18	22.00	21.64	22.44	22.90
	8H	18.76	19.53	19.23	19.97	20.44	21.28	22.04	21.74	22.49	22.96
	12H	18.94	19.62	19.42	20.10	20.57	21.35	22.03	21.83	22.51	22.98
8H	4H	18.30	19.06	18.76	19.51	19.97	20.94	21.71	21.41	22.15	22.62
	6H	19.08	19.72	19.58	20.21	20.69	21.38	22.01	21.88	22.51	22.98
	8H	19.41	19.98	19.92	20.49	20.97	21.54	22.11	22.05	22.62	23.11
	12H	19.68	20.18	20.19	20.68	21.24	21.68	22.18	22.19	22.67	23.23
12H	4H	18.34	19.02	18.82	19.50	19.97	20.94	21.63	21.43	22.10	22.58
	6H	19.17	19.74	19.68	20.25	20.73	21.40	21.97	21.91	22.48	22.96
	8H	19.56	20.06	20.07	20.56	21.12	21.61	22.11	22.12	22.60	23.17