

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: P1217446

Luminaire Tested: S125DRP-H290D835-X4F0-XX-UDD-G-W

Issue Date: 4/9/2026

Test Information

Test Method: LM-79-2024
Report Number: P1217446
TEST IS SCALED FROM IESNA LM-79-24 TEST DATA (G2-2511-596-4)
Test Lab: INNOVATION CENTER
Issue Date: 4/9/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DRP-H290D835-X4F0-XX-UDD-G-W
Description: DEFINE 5, DIRECT RECESSED WITH GRAZE FLUSH OPTIC
HIGH PERFORMANCE LIGHT ENGINE
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

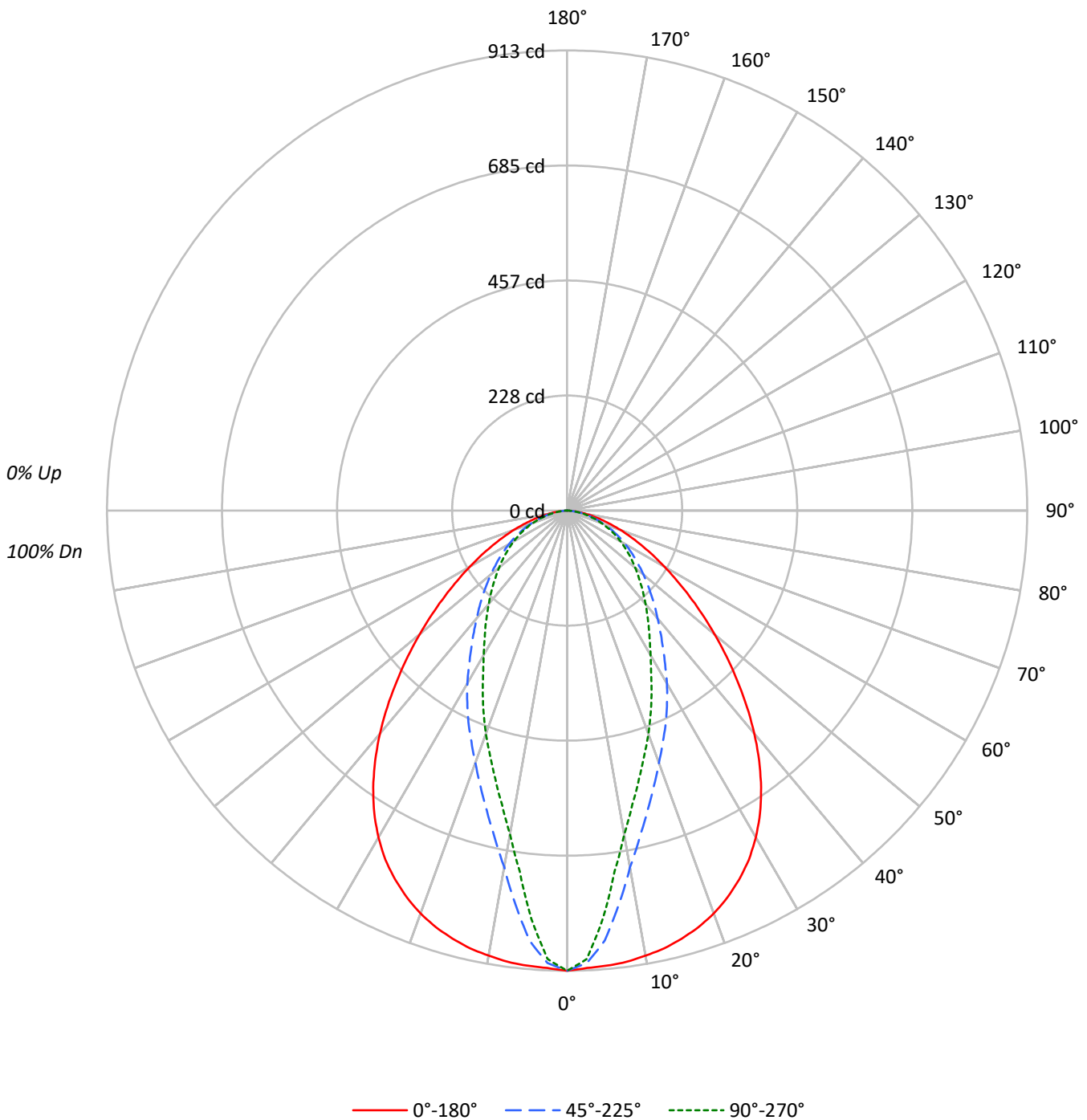
Lumens per Lamp: N/A
Luminaire Lumens: 1300.5 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 0.6 / 0.87
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
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	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	108	104	100	97	100	97	94	96	94	92	92	90	89	87
2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	75
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	65
4	87	76	68	62	85	75	67	62	72	66	61	70	64	60	68	63	59	57
5	80	69	61	55	78	68	60	54	66	59	54	64	58	53	62	57	53	51
6	75	63	55	49	73	62	54	49	60	53	48	59	52	48	57	52	47	46
7	70	58	50	44	68	57	49	44	55	49	44	54	48	43	53	47	43	41
8	66	53	45	40	64	52	45	40	51	44	40	50	44	39	49	43	39	37
9	62	49	42	37	60	49	41	36	48	41	36	47	40	36	46	40	36	34
10	58	46	39	34	57	45	38	34	44	38	33	44	38	33	43	37	33	32

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6455	6455	6455
5°	6432	6076	5771
10°	6438	5159	4682
15°	6435	4510	4033
20°	6401	4004	3545
25°	6300	3613	3088
30°	6112	3232	2699
35°	5791	2854	2439
40°	5332	2574	2234
45°	4778	2353	2068
50°	4198	2175	1936
55°	3648	2020	1829
60°	3150	1879	1732
65°	2713	1748	1629
70°	2325	1598	1503
75°	1942	1393	1336
80°	1531	1140	1107
85°	981	779	779

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4778 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.4	6.0
10°-20°	185.1	14.2
20°-30°	235.1	18.1
30°-40°	239.5	18.4
40°-50°	211.8	16.3
50°-60°	166.0	12.8
60°-70°	113.2	8.7
70°-80°	58.3	4.5
80°-90°	13.0	1.0
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°	498.6	38.3
0°-40°	738.1	56.8
0°-60°	1115.9	85.8
0°-90°	1300.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1300.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	913	913	913	913	913	
5°	906	902	856	823	813	86
15°	879	744	616	562	551	248
25°	808	574	463	408	396	371
35°	671	434	331	289	283	418
45°	478	307	235	210	207	369
55°	296	205	164	149	148	266
65°	162	125	104	97	97	162
75°	71	60	51	48	49	77
85°	12	11	10	9	10	16
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	913.1	913.1	913.1	913.1	913.1
2.5°	908.5	915.6	898.4	893.8	890.5
5°	906.4	901.8	856.2	822.8	813.2
7.5°	903.0	877.5	787.7	730.8	722.0
10°	896.8	839.5	718.7	663.1	652.2
12.5°	889.7	793.9	664.3	607.9	597.4
15°	879.2	743.8	616.2	561.5	551.0
17.5°	866.7	696.1	572.8	518.8	508.8
20°	850.8	652.6	532.2	481.2	471.2
22.5°	831.1	611.6	496.3	444.0	433.1
25°	807.7	573.6	463.2	408.0	395.9
27.5°	781.0	537.2	429.4	372.1	360.4
30°	748.8	501.7	395.9	340.3	330.7
32.5°	712.4	467.4	361.6	312.7	304.8
35°	671.0	434.0	330.7	288.9	282.6
37.5°	625.9	400.9	303.9	266.7	261.3
40°	577.8	368.7	278.9	246.2	242.1
42.5°	528.0	337.8	257.1	227.9	224.1
45°	477.9	307.3	235.4	209.9	206.9
47.5°	428.9	279.3	216.1	193.6	191.1
50°	381.7	252.9	197.8	177.7	176.0
52.5°	337.4	228.3	179.8	163.1	162.2
55°	296.0	205.3	163.9	148.8	148.4
57.5°	258.0	183.5	148.0	135.0	135.0
60°	222.8	163.1	132.9	121.7	122.5
62.5°	191.5	143.4	118.7	109.1	110.0
65°	162.2	125.0	104.5	96.6	97.4
67.5°	135.9	107.4	90.7	84.0	84.9
70°	112.5	90.7	77.3	71.5	72.7
72.5°	90.7	75.3	64.0	59.4	60.6
75°	71.1	59.8	51.0	47.7	48.9
77.5°	53.5	45.6	39.3	36.4	37.6
80°	37.6	32.6	28.0	25.9	27.2
82.5°	23.4	20.9	18.4	16.7	17.6
85°	12.1	11.3	9.6	8.8	9.6
87.5°	4.2	4.2	3.8	3.3	3.8
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	15.35	16.84	15.72	17.15	17.47	12.74	14.23	13.10	14.54	14.85
	3H	16.94	18.27	17.32	18.60	18.96	14.38	15.72	14.76	16.04	16.41
	4H	17.48	18.72	17.88	19.07	19.45	14.96	16.21	15.36	16.56	16.94
	6H	17.81	18.97	18.23	19.33	19.73	15.33	16.49	15.75	16.85	17.25
	8H	17.89	18.99	18.32	19.38	19.78	15.43	16.53	15.86	16.92	17.32
	12H	17.92	18.97	18.35	19.36	19.78	15.48	16.53	15.91	16.91	17.34
4H	2H	15.60	16.84	16.00	17.19	17.57	13.43	14.68	13.83	15.02	15.40
	3H	17.38	18.42	17.79	18.82	19.22	15.25	16.28	15.66	16.68	17.08
	4H	18.03	18.96	18.46	19.37	19.81	15.91	16.84	16.34	17.26	17.70
	6H	18.48	19.29	18.94	19.73	20.19	16.38	17.19	16.84	17.63	18.09
	8H	18.59	19.35	19.06	19.79	20.26	16.50	17.26	16.96	17.70	18.17
	12H	18.65	19.33	19.14	19.81	20.28	16.57	17.24	17.05	17.72	18.20
8H	4H	18.13	18.89	18.60	19.33	19.80	16.21	16.96	16.67	17.41	17.88
	6H	18.66	19.29	19.16	19.78	20.26	16.76	17.38	17.26	17.87	18.35
	8H	18.82	19.38	19.34	19.89	20.38	16.93	17.49	17.44	18.00	18.48
	12H	18.93	19.42	19.44	19.91	20.48	17.04	17.53	17.55	18.02	18.59
12H	4H	18.13	18.80	18.61	19.28	19.75	16.23	16.91	16.72	17.39	17.86
	6H	18.66	19.22	19.17	19.73	20.22	16.80	17.36	17.31	17.87	18.36
	8H	18.86	19.35	19.37	19.84	20.41	17.01	17.50	17.52	18.00	18.56