

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: P1217458

Luminaire Tested: S125DRP-H485D927-X4F0-XX-UDD-G-W

Issue Date: 4/9/2026

Test Information

Test Method: LM-79-2024
Report Number: P1217458
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-H485D927-X4F0-XX-UDD-G-W
Description: DEFINE 5, DIRECT RECESSED WITH GRAZE FLUSH OPTIC
HIGH PERFORMANCE LIGHT ENGINE
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

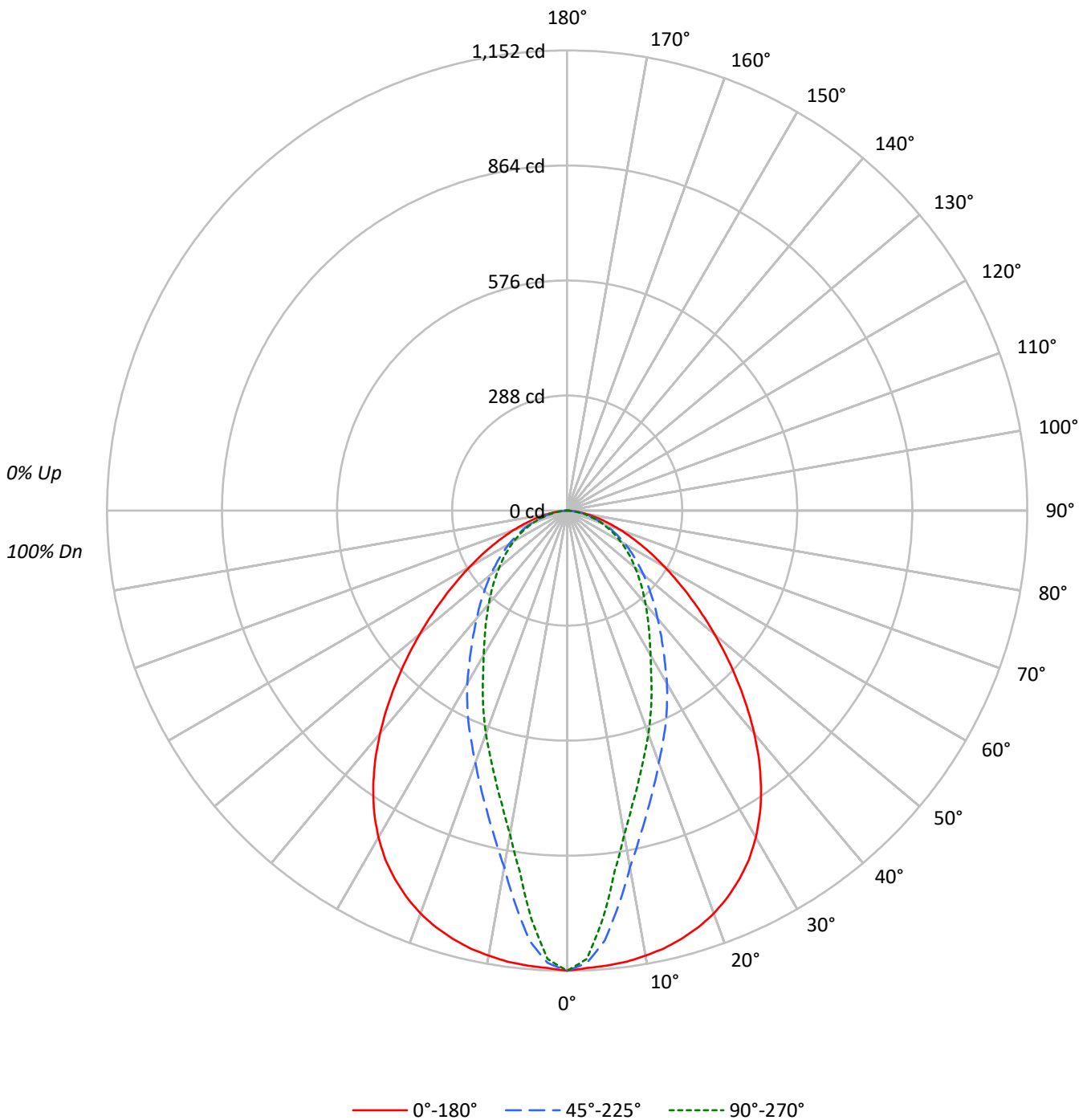
Lumens per Lamp: N/A
Luminaire Lumens: 1640.7 lumens
Efficiency: N/A
Efficacy: 94.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 0.6 / 0.87
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

Input Watts (W): 17.3
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										
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	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	108	104	100	97	100	97	94	96	94	92	92	90	89	87						87														
2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	75						75														
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	65						65														
4	87	76	68	62	85	75	67	62	72	66	61	70	64	60	68	63	59	57						57														
5	80	69	61	55	78	68	60	54	66	59	54	64	58	53	62	57	53	51						51														
6	75	63	55	49	73	62	54	49	60	53	48	59	52	48	57	52	47	46						46														
7	70	58	50	44	68	57	49	44	55	49	44	54	48	43	53	47	43	41						41														
8	66	53	45	40	64	52	45	40	51	44	40	50	44	39	49	43	39	37						37														
9	62	49	42	37	60	49	41	36	48	41	36	47	40	36	46	40	36	34						34														
10	58	46	39	34	57	45	38	34	44	38	33	44	38	33	43	37	33	32						32														

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8143	8143	8143
5°	8115	7665	7279
10°	8121	6508	5906
15°	8118	5690	5087
20°	8074	5051	4472
25°	7948	4558	3896
30°	7711	4077	3406
35°	7305	3600	3077
40°	6727	3247	2818
45°	6027	2968	2610
50°	5296	2744	2442
55°	4602	2549	2307
60°	3974	2371	2184
65°	3422	2206	2056
70°	2933	2017	1897
75°	2450	1756	1685
80°	1934	1437	1396
85°	1241	981	981

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6027 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.9	6.0
10°-20°	233.5	14.2
20°-30°	296.6	18.1
30°-40°	302.1	18.4
40°-50°	267.2	16.3
50°-60°	209.5	12.8
60°-70°	142.8	8.7
70°-80°	73.6	4.5
80°-90°	16.4	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°	629.0	38.3
0°-40°	931.1	56.8
0°-60°	1407.8	85.8
0°-90°	1640.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1640.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1152	1152	1152	1152	1152	
5°	1144	1138	1080	1038	1026	109
15°	1109	938	777	708	695	313
25°	1019	724	584	515	500	468
35°	846	548	417	364	356	527
45°	603	388	297	265	261	465
55°	373	259	207	188	187	336
65°	205	158	132	122	123	205
75°	90	75	64	60	62	97
85°	15	14	12	11	12	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1151.9	1151.9	1151.9	1151.9	1151.9
2.5°	1146.1	1155.1	1133.4	1127.6	1123.4
5°	1143.5	1137.7	1080.2	1038.0	1025.8
7.5°	1139.2	1107.1	993.7	921.9	910.9
10°	1131.3	1059.1	906.6	836.5	822.8
12.5°	1122.4	1001.6	838.1	766.9	753.7
15°	1109.2	938.3	777.4	708.3	695.1
17.5°	1093.4	878.2	722.6	654.5	641.9
20°	1073.3	823.3	671.4	607.1	594.4
22.5°	1048.5	771.6	626.1	560.1	546.4
25°	1019.0	723.6	584.4	514.8	499.5
27.5°	985.2	677.7	541.7	469.4	454.6
30°	944.6	632.9	499.5	429.3	417.2
32.5°	898.7	589.7	456.2	394.5	384.5
35°	846.5	547.5	417.2	364.5	356.5
37.5°	789.6	505.8	383.4	336.5	329.6
40°	728.9	465.2	351.8	310.7	305.4
42.5°	666.1	426.2	324.4	287.4	282.7
45°	602.8	387.7	296.9	264.8	261.1
47.5°	541.1	352.3	272.7	244.2	241.0
50°	481.5	319.1	249.5	224.2	222.0
52.5°	425.6	288.0	226.8	205.7	204.6
55°	373.4	259.0	206.8	187.8	187.2
57.5°	325.4	231.5	186.7	170.4	170.4
60°	281.1	205.7	167.7	153.5	154.5
62.5°	241.6	180.9	149.8	137.7	138.7
65°	204.6	157.7	131.9	121.8	122.9
67.5°	171.4	135.5	114.5	106.0	107.1
70°	141.9	114.5	97.6	90.2	91.8
72.5°	114.5	94.9	80.7	74.9	76.5
75°	89.7	75.4	64.3	60.1	61.7
77.5°	67.5	57.5	49.6	45.9	47.5
80°	47.5	41.1	35.3	32.7	34.3
82.5°	29.5	26.4	23.2	21.1	22.2
85°	15.3	14.2	12.1	11.1	12.1
87.5°	5.3	5.3	4.7	4.2	4.7
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	16.16	17.65	16.53	17.96	18.28	13.55	15.04	13.92	15.35	15.66
	3H	17.75	19.08	18.13	19.41	19.77	15.19	16.53	15.57	16.85	17.22
	4H	18.28	19.53	18.68	19.88	20.26	15.77	17.02	16.17	17.37	17.75
	6H	18.62	19.77	19.03	20.14	20.53	16.14	17.30	16.56	17.66	18.06
	8H	18.70	19.80	19.13	20.19	20.59	16.24	17.34	16.67	17.73	18.13
	12H	18.73	19.78	19.16	20.16	20.59	16.28	17.33	16.72	17.72	18.15
4H	2H	16.40	17.65	16.80	18.00	18.38	14.24	15.49	14.64	15.84	16.21
	3H	18.19	19.22	18.60	19.62	20.02	16.06	17.09	16.47	17.49	17.89
	4H	18.83	19.77	19.27	20.18	20.62	16.72	17.65	17.15	18.07	18.51
	6H	19.29	20.10	19.74	20.54	21.00	17.19	18.00	17.64	18.44	18.90
	8H	19.40	20.16	19.87	20.60	21.07	17.31	18.07	17.77	18.51	18.98
	12H	19.46	20.14	19.94	20.62	21.09	17.38	18.05	17.86	18.53	19.00
8H	4H	18.94	19.70	19.41	20.14	20.61	17.02	17.77	17.48	18.22	18.69
	6H	19.47	20.09	19.97	20.58	21.06	17.57	18.19	18.06	18.68	19.16
	8H	19.63	20.19	20.15	20.70	21.19	17.74	18.29	18.25	18.80	19.29
	12H	19.74	20.23	20.25	20.72	21.29	17.85	18.34	18.36	18.83	19.40
12H	4H	18.93	19.61	19.41	20.09	20.56	17.04	17.72	17.52	18.19	18.67
	6H	19.46	20.02	19.98	20.53	21.02	17.61	18.16	18.12	18.68	19.16
	8H	19.66	20.16	20.17	20.65	21.21	17.82	18.31	18.33	18.80	19.37