

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: P1217460

Luminaire Tested: S125DRP-H485D935-X4F0-XX-UDD-G-W

Issue Date: 4/9/2026

Test Information

Test Method: LM-79-2024
Report Number: P1217460
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-H485D935-X4F0-XX-UDD-G-W
Description: DEFINE 5, DIRECT RECESSED WITH GRAZE FLUSH OPTIC
HIGH PERFORMANCE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

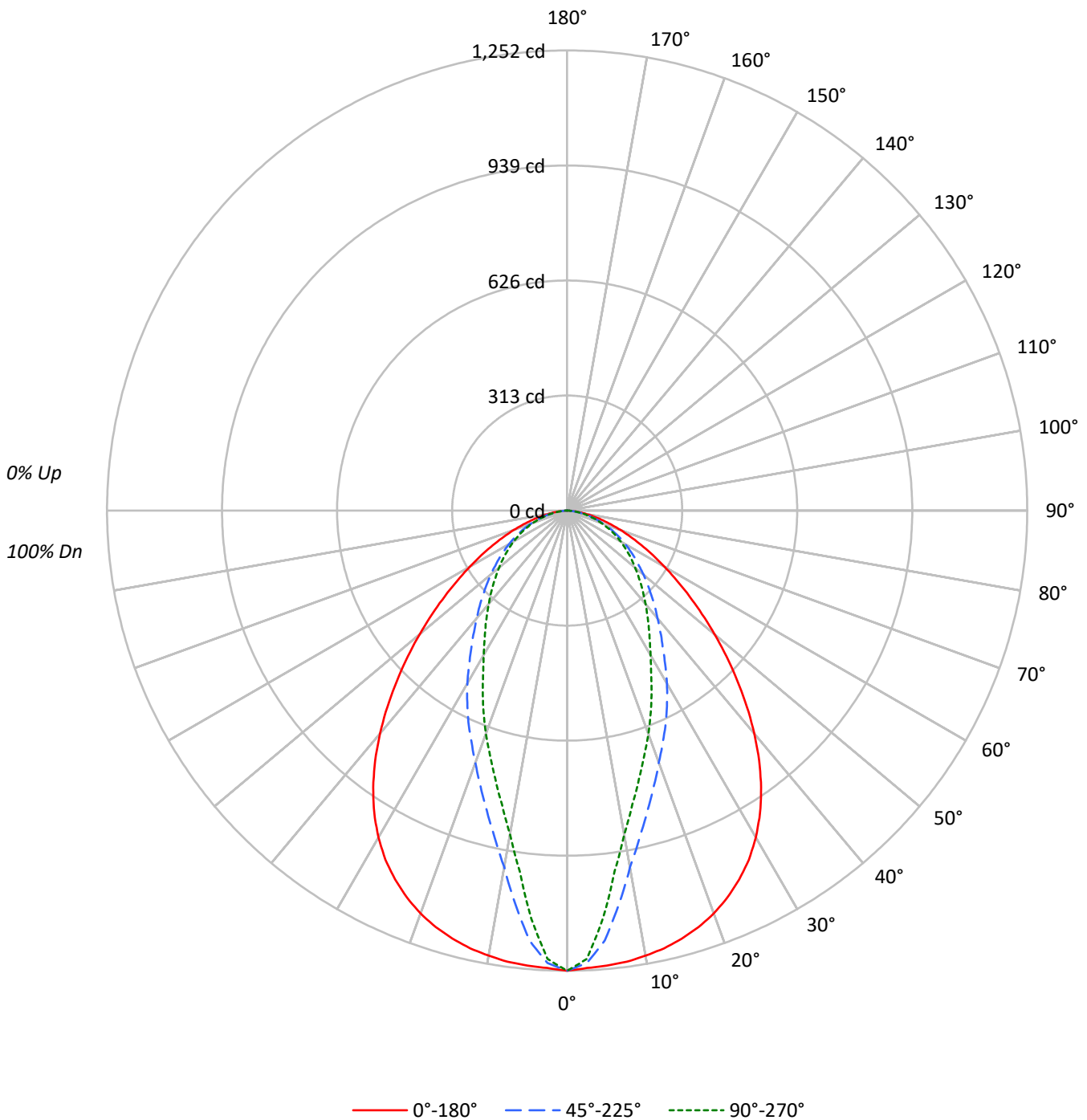
Lumens per Lamp: N/A
Luminaire Lumens: 1783.2 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 0.6 / 0.87
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

Input Watts (W): 17.3
Input Voltage (V): 120
Input Current (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																												
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°	8851	8851	8851
5°	8819	8331	7912
10°	8827	7074	6420
15°	8823	6184	5529
20°	8776	5490	4860
25°	8639	4955	4235
30°	8381	4432	3701
35°	7941	3913	3344
40°	7311	3529	3063
45°	6550	3226	2837
50°	5756	2982	2654
55°	5003	2769	2508
60°	4319	2577	2375
65°	3720	2397	2235
70°	3187	2191	2061
75°	2663	1909	1833
80°	2101	1563	1519
85°	1346	1071	1071

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6550 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.5	6.0
10°-20°	253.8	14.2
20°-30°	322.4	18.1
30°-40°	328.4	18.4
40°-50°	290.5	16.3
50°-60°	227.6	12.8
60°-70°	155.2	8.7
70°-80°	80.0	4.5
80°-90°	17.9	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°	683.6	38.3
0°-40°	1012.0	56.8
0°-60°	1530.1	85.8
0°-90°	1783.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1783.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1252	1252	1252	1252	1252	
5°	1243	1236	1174	1128	1115	118
15°	1206	1020	845	770	756	340
25°	1108	786	635	560	543	509
35°	920	595	453	396	388	573
45°	655	421	323	288	284	505
55°	406	282	225	204	204	365
65°	222	171	143	132	134	223
75°	98	82	70	65	67	105
85°	17	16	13	12	13	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1252.0	1252.0	1252.0	1252.0	1252.0
2.5°	1245.7	1255.4	1231.9	1225.6	1221.0
5°	1242.8	1236.5	1174.0	1128.1	1115.0
7.5°	1238.2	1203.2	1080.0	1002.0	990.0
10°	1229.6	1151.1	985.4	909.2	894.3
12.5°	1219.9	1088.6	910.9	833.5	819.2
15°	1205.5	1019.8	845.0	769.9	755.5
17.5°	1188.3	954.4	785.3	711.4	697.6
20°	1166.5	894.8	729.7	659.8	646.0
22.5°	1139.6	838.7	680.4	608.8	593.9
25°	1107.5	786.5	635.2	559.5	542.9
27.5°	1070.8	736.6	588.7	510.2	494.1
30°	1026.7	687.9	542.9	466.6	453.4
32.5°	976.8	640.9	495.9	428.8	417.9
35°	920.1	595.0	453.4	396.1	387.5
37.5°	858.1	549.7	416.7	365.7	358.3
40°	792.2	505.6	382.4	337.6	331.9
42.5°	724.0	463.2	352.5	312.4	307.3
45°	655.2	421.3	322.7	287.8	283.8
47.5°	588.1	382.9	296.4	265.4	262.0
50°	523.4	346.8	271.1	243.6	241.3
52.5°	462.6	313.0	246.5	223.6	222.4
55°	405.9	281.5	224.7	204.1	203.5
57.5°	353.7	251.7	202.9	185.2	185.2
60°	305.5	223.6	182.3	166.8	168.0
62.5°	262.5	196.6	162.8	149.6	150.8
65°	222.4	171.4	143.3	132.4	133.6
67.5°	186.3	147.3	124.4	115.2	116.4
70°	154.2	124.4	106.0	98.0	99.7
72.5°	124.4	103.2	87.7	81.4	83.1
75°	97.5	82.0	69.9	65.3	67.1
77.5°	73.4	62.5	53.9	49.9	51.6
80°	51.6	44.7	38.4	35.5	37.3
82.5°	32.1	28.7	25.2	22.9	24.1
85°	16.6	15.5	13.2	12.0	13.2
87.5°	5.7	5.7	5.2	4.6	5.2
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	16.45	17.94	16.82	18.25	18.57	13.84	15.33	14.20	15.64	15.95
	3H	18.04	19.37	18.42	19.70	20.06	15.48	16.81	15.86	17.14	17.50
	4H	18.57	19.82	18.97	20.17	20.55	16.06	17.31	16.46	17.65	18.03
	6H	18.91	20.06	19.32	20.43	20.82	16.43	17.58	16.84	17.95	18.34
	8H	18.99	20.09	19.42	20.48	20.88	16.53	17.63	16.95	18.01	18.42
	12H	19.02	20.07	19.45	20.45	20.88	16.57	17.62	17.00	18.01	18.43
4H	2H	16.69	17.94	17.09	18.29	18.67	14.53	15.77	14.93	16.12	16.50
	3H	18.48	19.51	18.89	19.91	20.31	16.34	17.38	16.75	17.78	18.18
	4H	19.12	20.06	19.56	20.47	20.91	17.01	17.94	17.44	18.36	18.80
	6H	19.58	20.39	20.03	20.83	21.29	17.47	18.28	17.93	18.73	19.19
	8H	19.69	20.45	20.16	20.89	21.36	17.60	18.35	18.06	18.80	19.27
	12H	19.75	20.43	20.24	20.91	21.38	17.67	18.34	18.15	18.82	19.29
8H	4H	19.23	19.99	19.70	20.43	20.90	17.31	18.06	17.77	18.51	18.97
	6H	19.76	20.38	20.26	20.88	21.35	17.86	18.48	18.35	18.97	19.45
	8H	19.92	20.48	20.44	20.99	21.48	18.02	18.58	18.54	19.09	19.58
	12H	20.03	20.52	20.54	21.01	21.58	18.14	18.63	18.65	19.12	19.69
12H	4H	19.22	19.90	19.71	20.38	20.85	17.33	18.00	17.81	18.48	18.95
	6H	19.75	20.31	20.27	20.82	21.31	17.89	18.45	18.41	18.96	19.45
	8H	19.95	20.45	20.46	20.94	21.50	18.11	18.60	18.62	19.09	19.66