

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: P1217499

Luminaire Tested: S125DRP-S485D830-X4F0-XX-UDD-G-W

Issue Date: 4/9/2026

Test Information

Test Method: LM-79-2024
Report Number: P1217499
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-S485D830-X4F0-XX-UDD-G-W
Description: DEFINE 5, DIRECT RECESSED WITH GRAZE FLUSH OPTIC
CORE LIGHT ENGINE
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

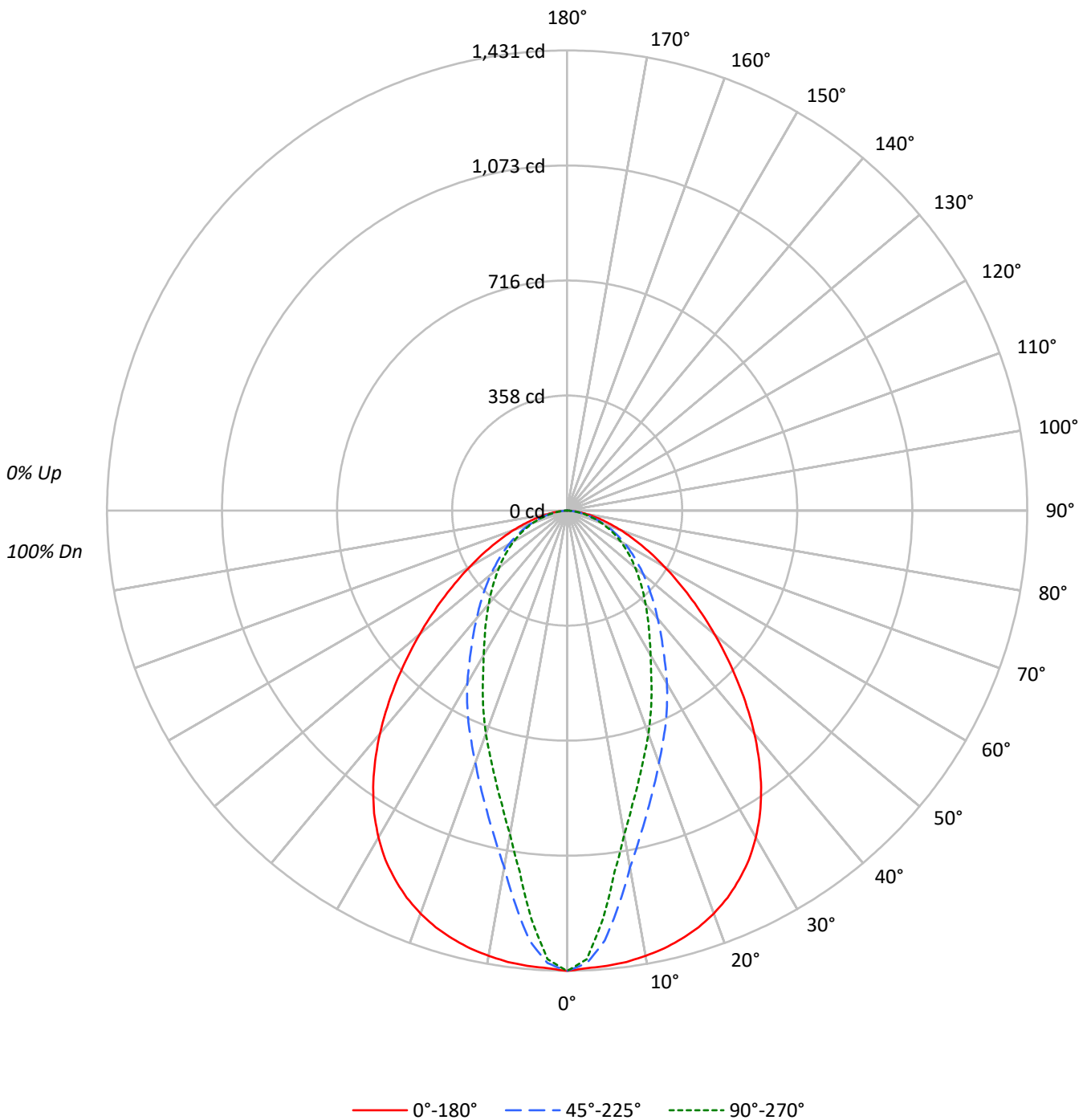
Lumens per Lamp: N/A
Luminaire Lumens: 2038.7 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 0.6 / 0.87
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

Input Watts (W): 19.1
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	
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°	10119	10119	10119
5°	10083	9525	9046
10°	10091	8087	7339
15°	10087	7070	6322
20°	10033	6276	5557
25°	9877	5664	4842
30°	9582	5067	4232
35°	9078	4474	3823
40°	8358	4034	3502
45°	7489	3689	3243
50°	6581	3409	3034
55°	5719	3166	2868
60°	4939	2946	2715
65°	4254	2740	2554
70°	3644	2505	2356
75°	3043	2185	2095
80°	2402	1787	1734
85°	1541	1225	1225

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7489 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.9	6.0
10°-20°	290.1	14.2
20°-30°	368.6	18.1
30°-40°	375.4	18.4
40°-50°	332.1	16.3
50°-60°	260.3	12.8
60°-70°	177.5	8.7
70°-80°	91.4	4.5
80°-90°	20.4	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°	781.6	38.3
0°-40°	1157.0	56.8
0°-60°	1749.4	85.8
0°-90°	2038.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2038.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1431	1431	1431	1431	1431	
5°	1421	1414	1342	1290	1275	135
15°	1378	1166	966	880	864	389
25°	1266	899	726	640	621	582
35°	1052	680	518	453	443	655
45°	749	482	369	329	324	578
55°	464	322	257	233	233	418
65°	254	196	164	151	153	255
75°	111	94	80	75	77	120
85°	19	18	15	14	15	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1431.4	1431.4	1431.4	1431.4	1431.4
2.5°	1424.2	1435.3	1408.4	1401.2	1396.0
5°	1420.9	1413.7	1342.2	1289.8	1274.7
7.5°	1415.6	1375.7	1234.8	1145.6	1131.9
10°	1405.8	1316.0	1126.6	1039.4	1022.4
12.5°	1394.7	1244.6	1041.4	952.9	936.6
15°	1378.3	1165.9	966.0	880.2	863.8
17.5°	1358.6	1091.2	897.9	813.3	797.6
20°	1333.7	1023.1	834.3	754.4	738.6
22.5°	1302.9	958.8	777.9	696.0	679.0
25°	1266.2	899.2	726.2	639.7	620.7
27.5°	1224.3	842.2	673.1	583.3	564.9
30°	1173.8	786.5	620.7	533.5	518.4
32.5°	1116.8	732.7	566.9	490.2	477.8
35°	1051.9	680.3	518.4	452.9	443.0
37.5°	981.1	628.5	476.5	418.1	409.6
40°	905.7	578.1	437.1	386.0	379.5
42.5°	827.8	529.6	403.1	357.2	351.3
45°	749.1	481.7	369.0	329.0	324.4
47.5°	672.4	437.8	338.8	303.4	299.5
50°	598.4	396.5	310.0	278.5	275.9
52.5°	528.9	357.8	281.8	255.6	254.3
55°	464.0	321.8	256.9	233.3	232.7
57.5°	404.4	287.7	232.0	211.7	211.7
60°	349.3	255.6	208.4	190.7	192.0
62.5°	300.2	224.8	186.1	171.1	172.4
65°	254.3	196.0	163.8	151.4	152.7
67.5°	213.0	168.4	142.2	131.7	133.0
70°	176.3	142.2	121.2	112.1	114.0
72.5°	142.2	118.0	100.3	93.1	95.0
75°	111.4	93.7	80.0	74.7	76.7
77.5°	83.9	71.4	61.6	57.0	59.0
80°	59.0	51.1	43.9	40.6	42.6
82.5°	36.7	32.8	28.8	26.2	27.5
85°	19.0	17.7	15.1	13.8	15.1
87.5°	6.6	6.6	5.9	5.2	5.9
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	16.92	18.40	17.28	18.72	19.03	14.30	15.79	14.67	16.10	16.42
	3H	18.50	19.84	18.88	20.16	20.53	15.95	17.28	16.32	17.61	17.97
	4H	19.04	20.29	19.44	20.64	21.01	16.52	17.77	16.92	18.12	18.50
	6H	19.37	20.53	19.79	20.89	21.29	16.90	18.05	17.31	18.42	18.81
	8H	19.45	20.55	19.88	20.94	21.34	16.99	18.09	17.42	18.48	18.88
	12H	19.49	20.54	19.92	20.92	21.35	17.04	18.09	17.47	18.47	18.90
4H	2H	17.16	18.41	17.56	18.76	19.14	14.99	16.24	15.39	16.59	16.97
	3H	18.94	19.98	19.35	20.38	20.78	16.81	17.84	17.22	18.24	18.65
	4H	19.59	20.52	20.02	20.94	21.38	17.47	18.40	17.91	18.82	19.26
	6H	20.04	20.85	20.50	21.29	21.75	17.94	18.75	18.40	19.19	19.65
	8H	20.16	20.91	20.62	21.36	21.82	18.06	18.82	18.53	19.26	19.73
	12H	20.22	20.89	20.70	21.37	21.84	18.13	18.81	18.61	19.29	19.76
8H	4H	19.70	20.45	20.16	20.90	21.36	17.77	18.53	18.23	18.97	19.44
	6H	20.22	20.85	20.72	21.34	21.82	18.32	18.94	18.82	19.44	19.91
	8H	20.39	20.94	20.90	21.45	21.94	18.49	19.05	19.00	19.56	20.05
	12H	20.49	20.98	21.00	21.48	22.04	18.60	19.09	19.11	19.59	20.15
12H	4H	19.69	20.36	20.17	20.84	21.31	17.79	18.47	18.28	18.95	19.42
	6H	20.22	20.78	20.73	21.29	21.78	18.36	18.92	18.87	19.43	19.92
	8H	20.42	20.91	20.93	21.40	21.97	18.57	19.06	19.08	19.56	20.12