

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P997737

Luminaire Tested: SA2XXRDP-B485DB30-4F0-XX-W2A-F

Issue Date: 5/2/2025

Test Information

Test Method: LM-79-2019
Report Number: P997737
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-24)
Test Lab: INNOVATION CENTER
Issue Date: 5/2/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXRDP-B485DB30-4F0-XX-W2A-F
Description: Define 2 Regressed Direct Recessed with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

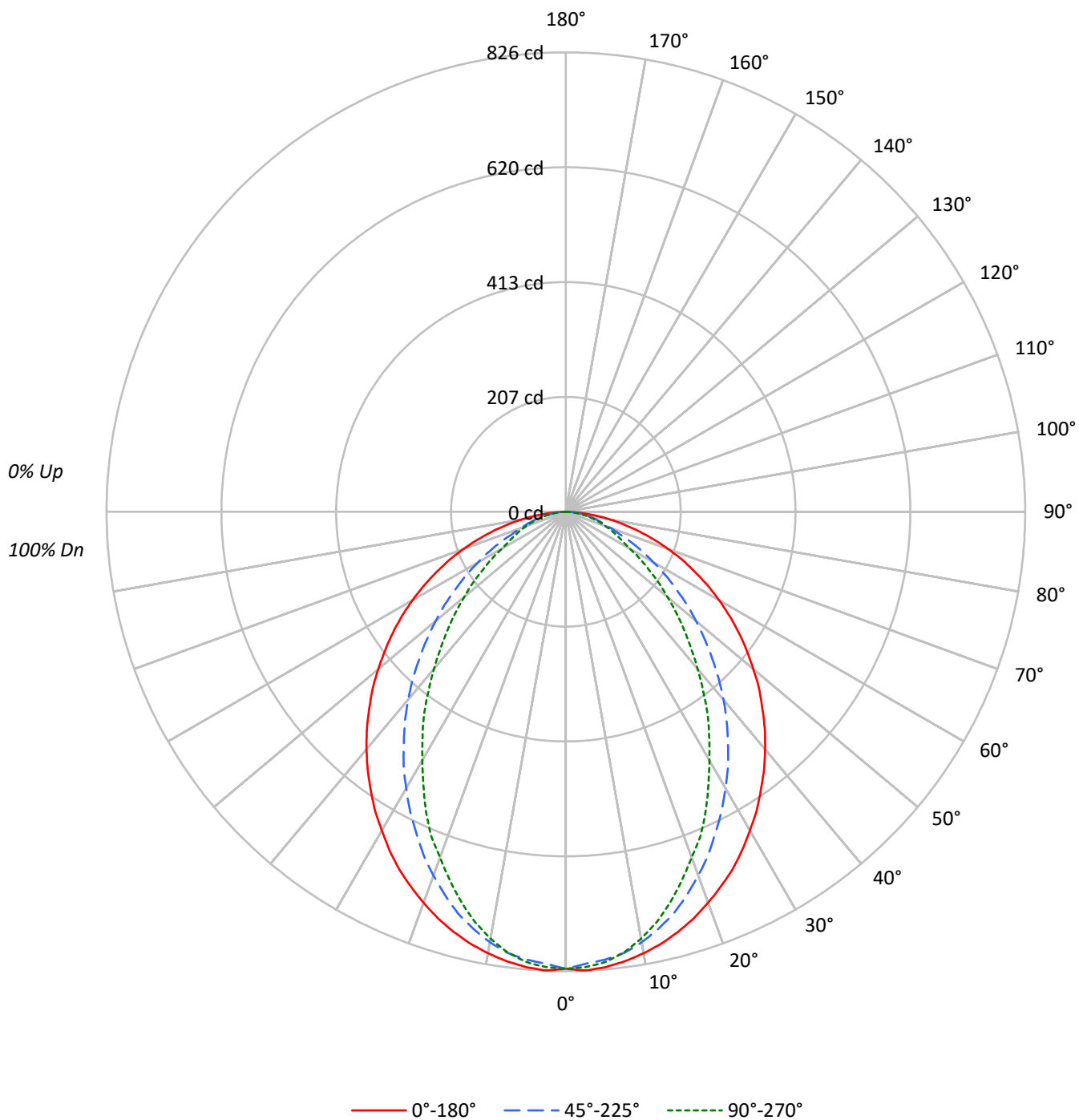
Lumens per Lamp: N/A
Luminaire Lumens: 1690.0 lumens
Efficiency: N/A
Efficacy: 70.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 24
Input Voltage (V):
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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	106	102	98	107	103	100	97	99	96	94		95	93	91		92
2	101	94	87	82	98	92	86	81	88	83	79		85	81	78		82
3	93	83	76	70	90	82	75	69	79	73	68		76	71	67		74
4	86	75	66	60	83	73	66	60	71	64	59		69	63	58		66
5	79	67	59	53	77	66	58	52	64	57	52		62	56	51		60
6	74	61	53	47	72	60	52	46	58	51	46		57	50	46		55
7	68	56	47	42	67	55	47	42	53	46	41		52	46	41		51
8	64	51	43	38	62	51	43	37	49	42	37		48	42	37		47
9	60	47	39	34	59	47	39	34	46	39	34		44	38	34		44
10	56	44	36	31	55	43	36	31	42	36	31		41	35	31		41

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13007	13007	13007
5°	13057	12844	12915
10°	12957	12634	12526
15°	12809	12260	11906
20°	12602	11726	11136
25°	12390	11119	10390
30°	12096	10493	9433
35°	11813	9815	8593
40°	11524	9113	7623
45°	11186	8323	6743
50°	10840	7526	5878
55°	10487	6670	5048
60°	10077	5768	4192
65°	9611	4847	3817
70°	9053	3994	3513
75°	8367	3639	3272
80°	7393	3254	2981
85°	5812	2561	2561

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 11186 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.0	4.6
10°-20°	211.4	12.5
20°-30°	296.8	17.6
30°-40°	323.6	19.1
40°-50°	297.4	17.6
50°-60°	233.5	13.8
60°-70°	152.0	9.0
70°-80°	78.3	4.6
80°-90°	20.0	1.2
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°	585.3	34.6
0°-40°	908.8	53.8
0°-60°	1439.7	85.2
0°-90°	1690.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1690.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	822	822	822	822	822	
5°	822	818	808	815	813	78
15°	782	773	748	734	726	220
25°	709	686	637	606	595	326
35°	611	573	508	461	445	383
45°	500	450	372	319	301	386
55°	380	322	242	197	183	340
65°	257	196	129	104	102	254
75°	137	85	60	54	54	145
85°	32	16	14	14	14	38
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	821.7	821.7	821.7	821.7	821.7
2.5°	825.5	821.7	813.6	821.0	819.5
5°	821.7	818.0	808.3	815.0	812.8
7.5°	815.0	810.6	800.2	803.1	799.4
10°	806.1	800.9	786.0	783.8	779.3
12.5°	795.0	788.3	768.2	763.7	755.5
15°	781.6	773.4	748.1	734.0	726.5
17.5°	766.0	754.1	722.8	706.5	694.6
20°	748.1	733.2	696.1	677.5	661.1
22.5°	728.8	711.7	668.5	643.3	632.1
25°	709.4	685.6	636.6	606.1	594.9
27.5°	686.4	661.1	606.8	571.9	554.8
30°	661.8	633.6	574.1	536.2	516.1
32.5°	638.1	603.8	542.9	498.2	479.7
35°	611.3	573.4	507.9	461.1	444.7
37.5°	585.3	544.4	475.2	423.9	405.3
40°	557.7	513.1	441.0	388.2	368.9
42.5°	529.5	481.9	406.8	351.7	333.2
45°	499.7	449.9	371.8	319.0	301.2
47.5°	471.5	418.7	338.4	285.6	269.2
50°	440.2	387.4	305.6	254.3	238.7
52.5°	409.8	354.0	274.4	225.3	211.2
55°	380.0	322.0	241.7	197.1	182.9
57.5°	349.5	290.0	212.7	171.0	159.1
60°	318.3	258.8	182.2	144.3	132.4
62.5°	287.8	228.3	156.2	120.5	114.5
65°	256.6	196.3	129.4	104.1	101.9
67.5°	226.8	166.6	104.1	91.5	89.2
70°	195.6	137.6	86.3	78.8	75.9
72.5°	165.8	110.8	72.1	66.2	64.7
75°	136.8	84.8	59.5	54.3	53.5
77.5°	107.8	60.2	46.8	43.9	42.4
80°	81.1	43.1	35.7	32.7	32.7
82.5°	56.5	29.0	24.5	23.1	23.1
85°	32.0	16.4	14.1	14.1	14.1
87.5°	11.9	5.9	5.9	5.2	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	20.15	21.67	20.51	21.98	22.30	16.11	17.63	16.47	17.94	18.26
	3H	21.91	23.28	22.29	23.61	23.97	17.37	18.74	17.75	19.07	19.43
	4H	22.58	23.86	22.98	24.21	24.59	17.87	19.16	18.27	19.50	19.88
	6H	23.07	24.25	23.48	24.62	25.01	18.26	19.44	18.67	19.81	20.20
	8H	23.23	24.36	23.66	24.75	25.15	18.38	19.51	18.81	19.90	20.30
	12H	23.34	24.42	23.77	24.80	25.23	18.46	19.54	18.89	19.92	20.35
4H	2H	20.25	21.53	20.65	21.88	22.26	16.80	18.08	17.20	18.43	18.81
	3H	22.19	23.25	22.60	23.65	24.05	18.25	19.31	18.66	19.71	20.11
	4H	22.94	23.89	23.37	24.31	24.75	18.85	19.80	19.28	20.22	20.66
	6H	23.53	24.36	23.98	24.80	25.26	19.33	20.17	19.79	20.61	21.07
	8H	23.74	24.52	24.20	24.96	25.43	19.50	20.27	19.96	20.72	21.19
	12H	23.89	24.59	24.38	25.07	25.54	19.61	20.31	20.10	20.79	21.26
8H	4H	22.96	23.74	23.42	24.18	24.65	19.20	19.98	19.66	20.42	20.89
	6H	23.60	24.24	24.09	24.73	25.21	19.79	20.43	20.28	20.92	21.40
	8H	23.85	24.42	24.36	24.93	25.42	20.01	20.59	20.52	21.09	21.58
	12H	24.05	24.56	24.56	25.05	25.62	20.19	20.70	20.70	21.19	21.75
12H	4H	22.94	23.64	23.43	24.12	24.59	19.24	19.94	19.73	20.42	20.89
	6H	23.58	24.15	24.09	24.66	25.15	19.85	20.43	20.36	20.94	21.43
	8H	23.86	24.37	24.37	24.86	25.43	20.12	20.63	20.63	21.13	21.69