

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: P998575

Luminaire Tested: SA2XXDIP-B485D725UB2750-4F0-XX-W2A-F_3000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P998575
REPORT IS A COMBINATION OF REPORTS P984318 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXDIP-B485D725UB2750-4F0-XX-W2A-F_3000K
Description: Define 2 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

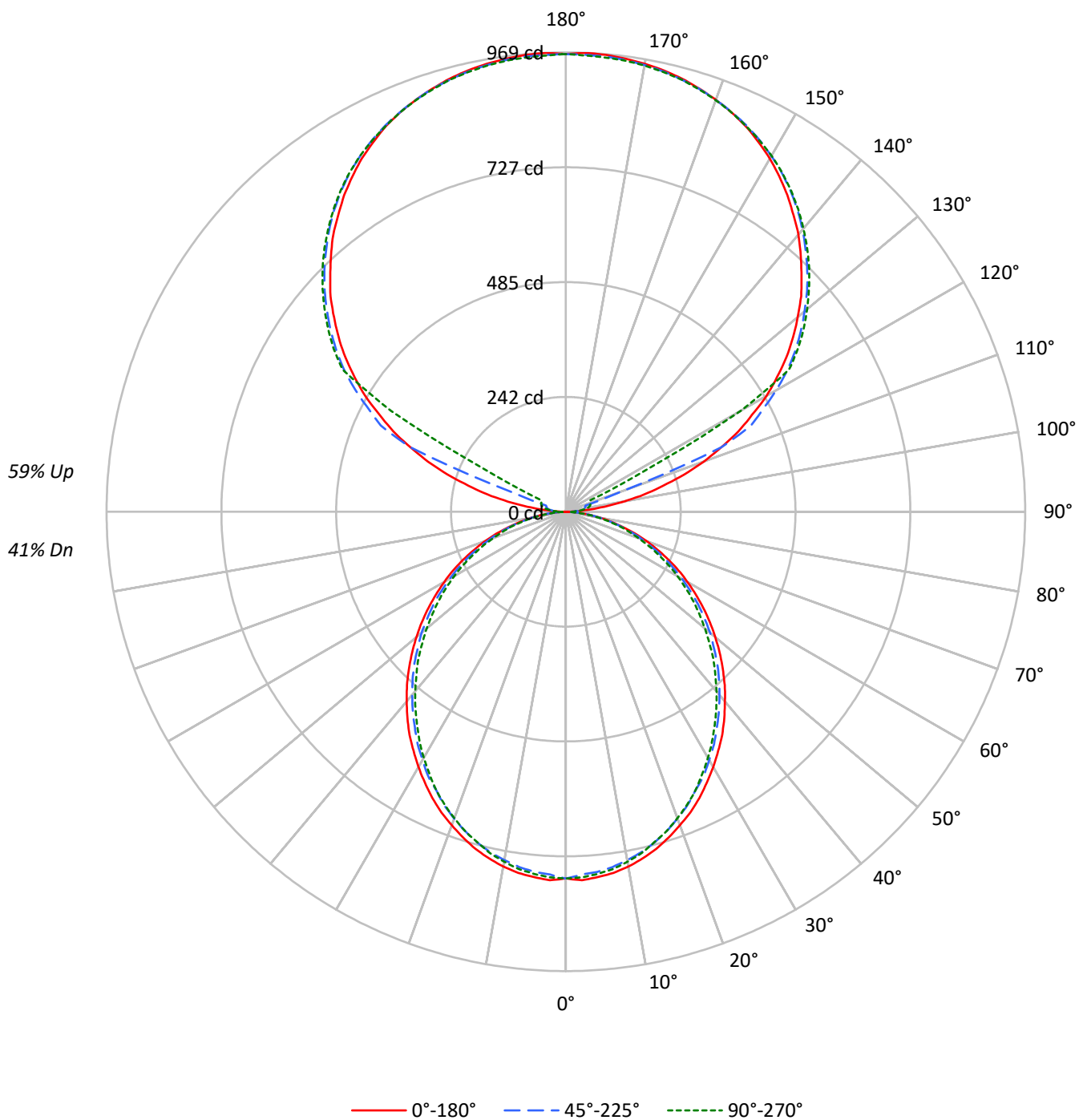
Lumens per Lamp: N/A
Luminaire Lumens: 4800.0 lumens
Efficiency: N/A
Efficacy: 106.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 45.1
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	30	10
RCR																	
0	105	105	105	105	96	96	96	96	78	78	78	62	62	62	48	48	48
1	96	92	88	84	87	84	80	77	69	66	64	55	53	52	42	41	40
2	87	80	74	69	79	73	68	63	60	56	53	48	46	43	37	36	34
3	80	70	63	57	72	64	58	53	53	48	45	43	39	37	33	31	29
4	73	62	54	48	66	57	50	45	47	42	38	38	34	31	29	27	25
5	67	55	47	41	61	51	44	38	42	37	33	34	30	27	27	24	22
6	61	50	42	36	56	45	38	33	38	33	29	31	27	24	24	21	19
7	57	45	37	31	52	41	34	29	34	29	25	28	24	21	22	19	17
8	53	40	33	28	48	37	31	26	31	26	22	26	22	19	20	17	15
9	49	37	30	25	45	34	27	23	29	23	20	23	20	17	19	16	14
10	46	34	27	22	42	31	25	21	26	21	18	22	18	15	17	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12244	12244	12244
5°	12264	11672	11588
10°	12164	11139	10918
15°	11986	10603	10214
20°	11745	10020	9546
25°	11505	9411	8879
30°	11204	8840	8180
35°	10918	8236	7492
40°	10567	7641	6843
45°	10217	7050	6206
50°	9836	6449	5545
55°	9433	5807	4919
60°	8982	5109	4268
65°	8489	4404	3584
70°	7860	3628	2894
75°	6993	2796	2236
80°	5940	1900	1438
85°	4308	884	611

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10217 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.8	1.5
10°-20°	204.8	4.3
20°-30°	301.0	6.3
30°-40°	349.6	7.3
40°-50°	349.2	7.3
50°-60°	304.5	6.3
60°-70°	225.1	4.7
70°-80°	127.3	2.7
80°-90°	35.3	0.7
90°-100°	31.8	0.7
100°-110°	118.7	2.5
110°-120°	314.7	6.6
120°-130°	522.0	10.9
130°-140°	554.5	11.6
140°-150°	515.4	10.7
150°-160°	414.3	8.6
160°-170°	267.0	5.6
170°-180°	91.9	1.9
0°-30°	578.7	12.1
0°-40°	928.3	19.3
0°-60°	1582.0	33.0
0°-90°	1969.7	41.0
90°-120°	465.3	9.7
90°-150°	2057.1	42.9
90°-180°	2830.0	59.0
0°-180°	4800.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	774	774	774	774	774	
5°	774	771	762	768	767	73
15°	736	732	722	725	722	207
25°	666	660	648	649	648	307
35°	575	568	556	551	547	359
45°	468	463	452	443	440	361
55°	354	350	341	332	328	317
65°	239	234	227	220	216	236
75°	125	124	120	115	117	133
85°	30	30	29	27	26	34
90°	1	8	14	18	19	4
95°	45	22	27	31	30	54
105°	212	233	43	50	53	227
115°	402	414	431	108	57	395
125°	568	577	590	595	597	507
135°	703	714	720	727	726	543
145°	815	814	826	831	828	510
155°	898	891	900	904	898	414
165°	946	942	944	949	944	267
175°	968	963	964	969	962	92
180°	965	965	965	965	965	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	773.5	773.5	773.5	773.5	773.5
2.5°	778.0	774.3	766.1	773.5	772.0
5°	773.5	770.6	762.4	768.3	766.8
7.5°	768.3	763.9	755.7	761.6	760.1
10°	760.1	754.9	746.0	752.0	749.7
12.5°	749.0	744.5	735.6	739.3	737.8
15°	736.3	731.9	722.2	725.2	721.5
17.5°	720.7	716.3	706.6	710.3	706.6
20°	703.6	699.2	688.7	691.0	688.0
22.5°	686.5	679.8	670.2	670.2	668.7
25°	666.4	660.5	647.8	649.3	647.8
27.5°	644.1	638.9	629.2	627.0	623.3
30°	621.8	615.9	604.7	602.5	599.5
32.5°	598.0	593.5	581.6	577.2	574.2
35°	574.9	567.5	555.6	551.1	547.4
37.5°	548.9	542.2	530.3	525.1	521.4
40°	522.1	516.2	504.3	497.6	494.6
42.5°	496.1	490.2	478.3	470.8	466.4
45°	467.8	462.6	451.5	443.3	440.3
47.5°	440.3	435.1	423.2	415.0	410.6
50°	411.3	407.6	397.2	386.8	383.0
52.5°	383.0	377.8	368.2	360.0	354.8
55°	354.0	349.6	340.7	331.7	328.0
57.5°	325.0	321.3	311.6	302.7	299.7
60°	296.0	293.1	282.6	274.5	272.2
62.5°	267.8	262.6	255.1	247.7	244.7
65°	238.8	234.3	226.9	220.2	216.4
67.5°	209.0	205.3	198.6	193.4	190.4
70°	181.5	178.5	171.8	166.6	163.6
72.5°	153.2	150.2	146.5	141.3	139.1
75°	125.0	123.5	119.7	115.3	116.8
77.5°	99.7	96.7	95.2	93.0	90.7
80°	74.4	73.6	72.1	69.9	68.4
82.5°	50.6	50.6	49.8	46.9	46.9
85°	30.5	29.8	29.0	26.8	26.0
87.5°	13.4	11.9	10.4	8.2	7.4
90°	0.7	8.4	14.0	17.5	18.9
92.5°	17.5	14.7	16.8	18.2	18.9
95°	45.4	22.4	27.2	30.7	30.0
97.5°	81.7	24.5	35.6	37.7	38.4
100°	123.6	27.9	39.8	45.4	46.8
102.5°	169.8	168.4	41.2	48.9	51.0
105°	212.4	233.3	42.6	50.3	53.1
107.5°	262.0	279.4	44.0	51.7	54.5
110°	309.5	324.1	122.3	52.4	55.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	354.2	366.8	354.9	53.8	55.9
115°	401.7	413.6	431.0	107.6	57.3
117.5°	442.9	456.9	468.7	368.8	185.8
120°	489.0	499.5	512.1	520.4	426.1
122.5°	528.1	539.3	553.3	557.5	558.2
125°	567.9	577.0	590.3	595.2	597.3
127.5°	604.3	614.0	624.5	631.5	632.2
130°	638.5	649.7	657.4	665.0	664.3
132.5°	673.4	682.5	690.2	696.5	695.8
135°	702.8	713.9	720.2	727.2	725.8
137.5°	733.5	741.9	748.9	755.9	753.8
140°	763.5	769.1	776.8	783.1	779.6
142.5°	788.7	793.6	802.7	808.3	804.8
145°	815.2	814.5	826.4	831.3	827.8
147.5°	838.3	836.2	848.1	851.6	848.8
150°	860.6	855.8	866.9	871.1	867.6
152.5°	879.5	873.9	884.4	888.6	883.7
155°	897.7	891.4	899.8	904.0	898.4
157.5°	912.3	906.7	913.0	917.9	912.3
160°	924.9	920.7	924.9	929.1	924.2
162.5°	936.1	931.9	935.4	940.3	934.0
165°	945.9	941.7	943.8	948.7	943.8
167.5°	953.6	949.4	951.5	956.3	950.1
170°	959.8	955.6	957.0	961.9	955.6
172.5°	964.0	959.8	961.2	966.1	959.8
175°	967.5	962.6	964.0	968.9	961.9
177.5°	968.9	964.0	964.7	969.6	963.3
180°	965.4	965.4	965.4	965.4	965.4

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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	13.05	13.84	14.08	14.87	16.27	13.83	14.62	14.86	15.66	17.05
	3H	14.38	15.09	15.42	16.13	17.55	15.45	16.16	16.49	17.20	18.62
	4H	14.78	15.45	15.84	16.50	17.92	16.04	16.71	17.09	17.76	19.18
	6H	15.00	15.61	16.06	16.67	18.10	16.44	17.05	17.50	18.11	19.54
	8H	15.03	15.61	16.09	16.68	18.11	16.55	17.13	17.61	18.20	19.63
	12H	15.02	15.57	16.09	16.63	18.09	16.59	17.15	17.66	18.21	19.66
4H	2H	13.51	14.18	14.57	15.23	16.65	14.15	14.82	15.21	15.87	17.29
	3H	15.02	15.58	16.09	16.65	18.09	15.93	16.48	16.99	17.56	18.99
	4H	15.52	16.03	16.60	17.10	18.56	16.60	17.12	17.68	18.18	19.64
	6H	15.82	16.26	16.90	17.35	18.80	17.10	17.54	18.18	18.63	20.08
	8H	15.88	16.29	16.96	17.37	18.83	17.24	17.65	18.32	18.73	20.20
	12H	15.87	16.24	16.97	17.34	18.81	17.30	17.67	18.40	18.76	20.23
8H	4H	15.69	16.10	16.77	17.19	18.65	16.68	17.09	17.77	18.18	19.64
	6H	16.07	16.41	17.18	17.54	19.00	17.25	17.59	18.35	18.71	20.18
	8H	16.17	16.47	17.29	17.58	19.06	17.44	17.74	18.55	18.84	20.32
	12H	16.20	16.46	17.32	17.57	19.09	17.53	17.79	18.65	18.90	20.42
12H	4H	15.67	16.04	16.77	17.14	18.61	16.64	17.02	17.74	18.11	19.58
	6H	16.09	16.39	17.20	17.49	18.98	17.24	17.54	18.35	18.65	20.13
	8H	16.20	16.46	17.31	17.56	19.08	17.43	17.69	18.55	18.80	20.32