

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: P1009110

Luminaire Tested: S122DIP-B485D530UB40-4F0-XX-W2A-F4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009110
REPORT IS A COMBINATION OF REPORTS P984288 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B485D530UB40-4F0-XX-W2A-F4
Description: Define 2 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

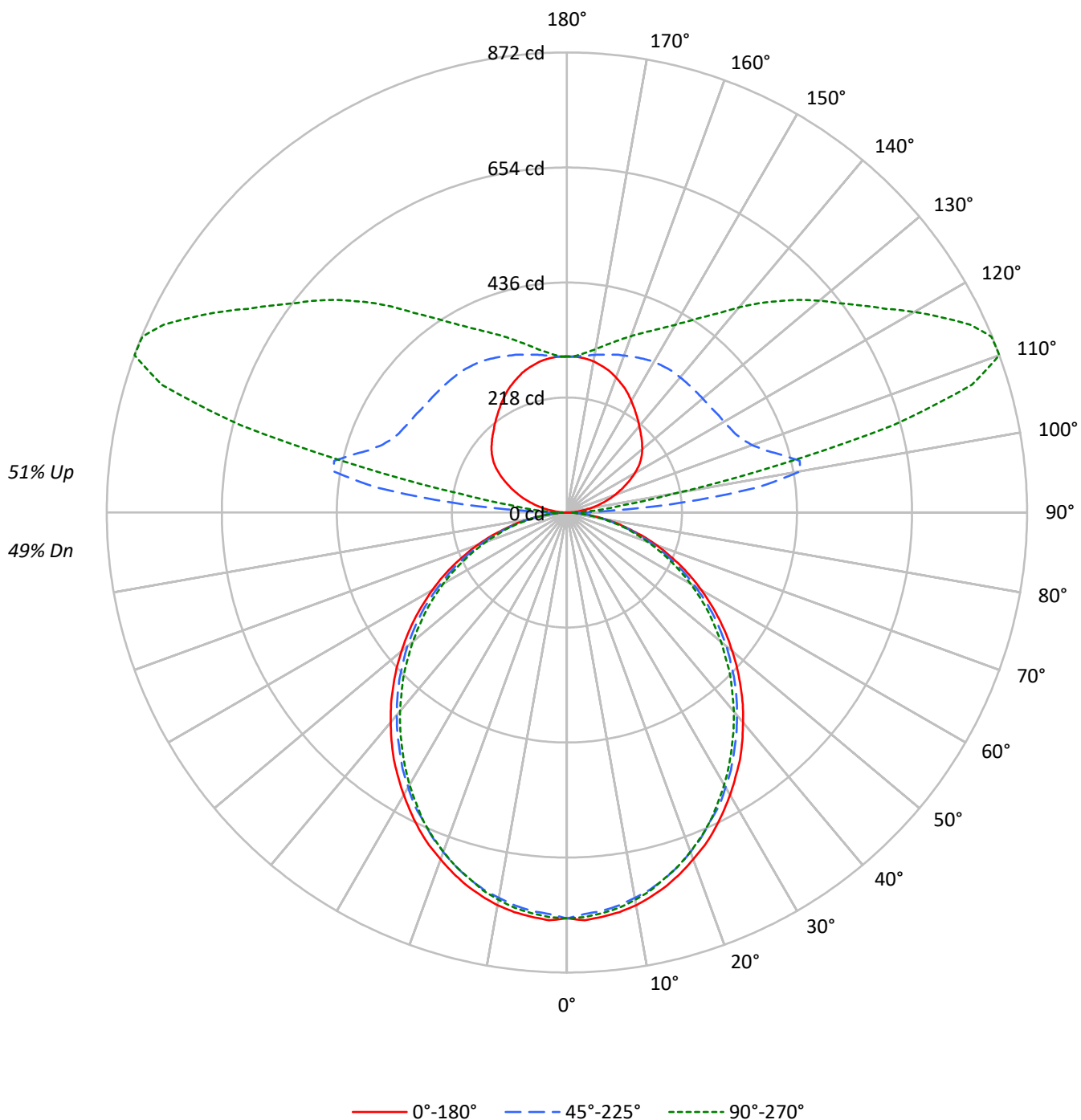
Lumens per Lamp: N/A
Luminaire Lumens: 4019.3 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 39.4
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	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55
1	98	93	89	86	90	86	83	80	72	70	68	60	58	57	49	47	46
2	89	81	75	70	81	75	70	65	63	60	56	53	50	47	43	41	39
3	81	72	64	58	74	66	60	55	56	51	47	47	43	40	38	35	33
4	74	63	55	49	68	59	52	46	50	44	40	42	38	34	34	31	29
5	68	56	48	42	62	52	45	40	45	39	35	37	33	30	31	27	25
6	63	51	42	37	57	47	40	35	40	34	30	34	29	26	28	25	22
7	58	46	38	32	53	42	35	30	36	31	27	31	26	23	25	22	20
8	54	41	34	28	49	39	32	27	33	28	24	28	24	21	23	20	18
9	50	38	30	25	46	35	29	24	30	25	21	26	22	19	21	18	16
10	47	35	27	23	43	32	26	21	28	23	19	24	20	17	20	17	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12176	12176	12176
5°	12196	11606	11524
10°	12097	11076	10857
15°	11919	10544	10156
20°	11680	9965	9493
25°	11441	9359	8829
30°	11141	8790	8133
35°	10857	8190	7451
40°	10508	7598	6805
45°	10160	7011	6172
50°	9781	6413	5514
55°	9382	5772	4892
60°	8933	5082	4245
65°	8439	4378	3564
70°	7817	3609	2878
75°	6953	2782	2222
80°	5908	1889	1430
85°	4280	878	609

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10160 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.4	1.8
10°-20°	203.7	5.1
20°-30°	299.3	7.4
30°-40°	347.7	8.7
40°-50°	347.2	8.6
50°-60°	302.8	7.5
60°-70°	223.8	5.6
70°-80°	126.6	3.2
80°-90°	35.3	0.9
90°-100°	119.8	3.0
100°-110°	405.0	10.1
110°-120°	425.7	10.6
120°-130°	350.1	8.7
130°-140°	281.3	7.0
140°-150°	212.5	5.3
150°-160°	149.4	3.7
160°-170°	88.0	2.2
170°-180°	28.6	0.7
0°-30°	575.4	14.3
0°-40°	923.1	23.0
0°-60°	1573.1	39.1
0°-90°	1958.9	48.7
90°-120°	950.6	23.6
90°-150°	1794.5	44.6
90°-180°	2060.0	51.3
0°-180°	4019.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	769	769	769	769	769	
5°	769	766	758	764	763	73
15°	732	728	718	721	717	206
25°	663	657	644	646	644	305
35°	572	564	552	548	544	357
45°	465	460	449	441	438	359
55°	352	348	339	330	326	315
65°	237	233	226	219	215	235
75°	124	123	119	115	116	133
85°	30	30	29	27	26	34
90°	1	8	19	18	19	3
95°	20	49	223	84	65	21
105°	69	105	421	753	640	74
115°	122	154	352	727	843	121
125°	170	202	339	589	684	152
135°	200	239	335	495	567	155
145°	228	263	333	413	452	143
155°	260	280	323	366	380	120
165°	283	292	310	328	334	80
175°	295	295	298	302	301	28
180°	296	296	296	296	296	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	769.2	769.2	769.2	769.2	769.2
2.5°	773.7	770.0	761.8	769.2	767.7
5°	769.2	766.3	758.1	764.0	762.6
7.5°	764.0	759.6	751.5	757.4	755.9
10°	755.9	750.7	741.8	747.8	745.5
12.5°	744.8	740.4	731.5	735.2	733.7
15°	732.2	727.8	718.2	721.1	717.4
17.5°	716.7	712.3	702.6	706.3	702.6
20°	699.7	695.2	684.9	687.1	684.2
22.5°	682.7	676.0	666.4	666.4	664.9
25°	662.7	656.8	644.2	645.7	644.2
27.5°	640.5	635.3	625.7	623.5	619.8
30°	618.3	612.4	601.3	599.1	596.1
32.5°	594.7	590.2	578.4	574.0	571.0
35°	571.7	564.3	552.5	548.1	544.4
37.5°	545.8	539.2	527.4	522.2	518.5
40°	519.2	513.3	501.5	494.8	491.9
42.5°	493.3	487.4	475.6	468.2	463.7
45°	465.2	460.0	449.0	440.8	437.9
47.5°	437.9	432.7	420.8	412.7	408.3
50°	409.0	405.3	395.0	384.6	380.9
52.5°	380.9	375.7	366.1	358.0	352.8
55°	352.1	347.6	338.7	329.9	326.2
57.5°	323.2	319.5	309.9	301.0	298.1
60°	294.4	291.4	281.1	272.9	270.7
62.5°	266.3	261.1	253.7	246.3	243.3
65°	237.4	233.0	225.6	218.9	215.2
67.5°	207.8	204.1	197.5	192.3	189.3
70°	180.5	177.5	170.9	165.7	162.7
72.5°	152.4	149.4	145.7	140.5	138.3
75°	124.3	122.8	119.1	114.6	116.1
77.5°	99.1	96.2	94.7	92.5	90.2
80°	74.0	73.2	71.7	69.5	68.0
82.5°	50.3	50.3	49.6	46.6	46.6
85°	30.3	29.6	28.8	26.6	25.9
87.5°	13.3	11.8	10.4	8.1	7.4
90°	0.6	7.6	19.3	18.5	18.8
92.5°	8.5	27.0	87.5	40.4	34.7
95°	19.9	48.9	222.8	84.2	64.8
97.5°	29.6	64.5	363.2	168.8	108.6
100°	43.8	79.0	449.0	336.2	203.5
102.5°	56.8	92.0	451.8	568.3	396.7
105°	69.3	104.6	421.1	752.8	640.5
107.5°	83.0	117.0	392.7	819.6	804.8
110°	96.6	129.8	373.4	808.7	871.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	109.1	142.1	360.9	772.0	870.7
115°	122.2	154.3	352.4	727.2	842.8
117.5°	135.8	166.6	347.8	684.2	800.8
120°	148.3	178.4	343.8	646.0	760.4
122.5°	160.3	190.6	341.6	616.0	718.4
125°	170.5	201.8	338.7	589.1	683.7
127.5°	179.0	212.2	337.0	566.1	651.3
130°	186.4	221.6	335.9	542.8	624.6
132.5°	193.2	230.8	335.3	518.6	596.7
135°	200.1	238.7	334.7	495.0	566.6
137.5°	206.3	245.5	334.7	471.2	537.6
140°	213.7	251.8	334.2	450.1	507.5
142.5°	221.1	256.9	334.2	430.0	477.4
145°	228.5	262.6	333.0	413.4	452.4
147.5°	236.4	267.1	331.3	399.0	430.2
150°	244.4	271.6	329.6	386.5	410.9
152.5°	252.3	276.2	326.8	376.0	394.4
155°	259.7	280.4	323.4	365.7	380.2
157.5°	266.0	283.9	320.0	356.0	367.7
160°	272.2	287.3	316.6	346.4	355.8
162.5°	278.5	289.8	313.7	337.3	344.4
165°	283.0	291.6	309.7	328.5	333.6
167.5°	287.0	293.2	306.3	320.5	323.4
170°	291.0	294.2	303.5	313.2	314.3
172.5°	293.3	295.0	300.1	306.6	306.9
175°	295.0	295.2	297.8	301.5	300.6
177.5°	296.1	295.5	295.5	297.8	296.1
180°	295.5	295.5	295.5	295.5	295.5

(END OF REPORT)